



**User
Manual
Version 11**



www.PEWeldBank.com
Info@PEWeldBank.com



| | |
|--------------|---|
| 4 | Subscribe to Fusion Management System (FMS). This also allows use of tablet/phone |
| 5 | Subscription Rates |
| 6 | How to log on to the Fusion Management System (FMS) |
| 7 | Set up Company Details |
| 8 | Set up Users |
| 9 | Set up Butt Welding and Electrofusion Machines |
| 9 | Set up Pipe & Fittings Manufacturers |
| 10 | Set up Projects / Jobs |
| 10 | Review Active Sensors |
| 11-17 | FMS Reporting System |
| 18 | Smartphone / Tablet User Guide |
| 19 | Download from Google Play, Apple App store |
| 19 | Smartphone / Tablet Login |
| 20 | Smartphone / Tablet Home Screen |
| 21-24 | Smartphone / Tablet Menu Screens |
| 25-29 | Connecting to Hydraulics |
| 30-32 | Connecting to Heater Plate |
| 33-36 | Pairing sensors to phone or tablet |
| 37-54 | Welding Procedure for App |
| 55-57 | Basic Welding Machine Operating Procedure |
| 58-60 | Review welds and Add 2nd GPS location |
| 61-63 | Trouble shooting |
| 64 | Calibration Details |
| 65-69 | Hydraulic connection to machines |
| 70-71 | Appendix 1: List of optional hydraulic fittings |
| 72-75 | Appendix 2: Updating Sensor Firmware |
| 76-78 | Appendix 3: Connection to heater plate via PT100 internal probe |
| 79 | Appendix 4: User Hierlrchy |
| 80 | Appendix 5: Unsubscribe / resubscribe |



Fusion Management System (FMS)

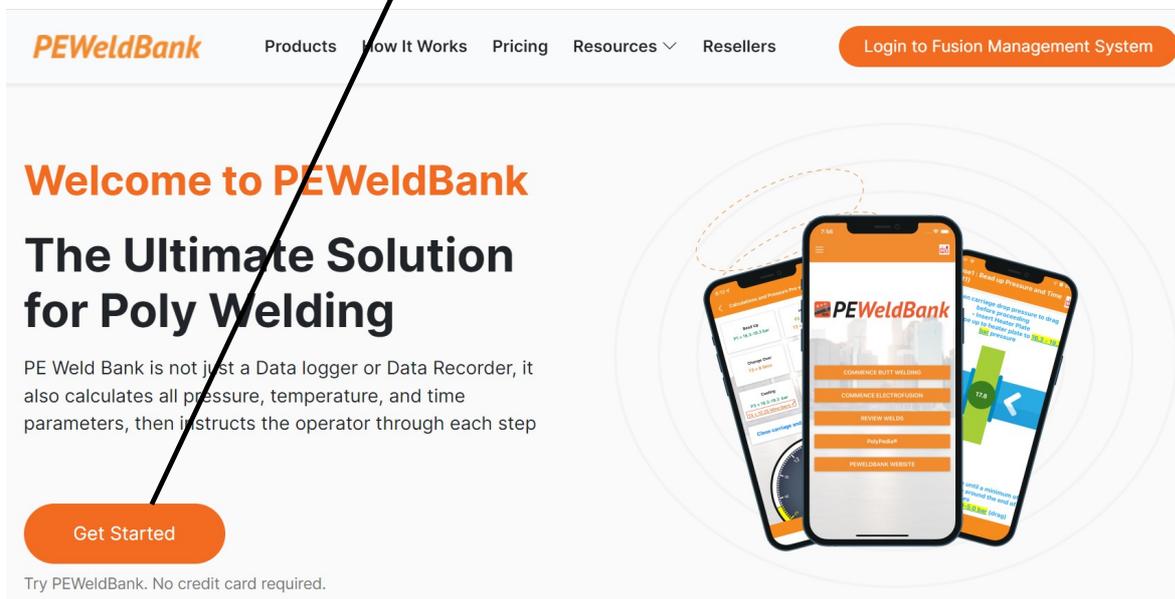
www.PEWeldBank.com
Info@PEWeldBank.com

How to Subscribe to **PEWeldBank** Fusion Management System (FMS) on your PC or Laptop



You must subscribe to “PE Weld Bank Enterprise Multi User” if you want to use sensors

1. Go to **PEWeldBank.com** on your PC or Laptop
2. Click on Get Started



3. Click “Sign up”

Sign in Sign up

Sign Up
Get registered using your preferred package

| | |
|---|---|
| <input type="text" value="Package"/> | <input type="text" value="Welder Number"/> |
| <input type="text" value="Username"/> | <input type="text" value="Phone"/> |
| <input type="text" value="Company Name"/> | <input type="text" value="Country"/> |
| <input type="text" value="First Name"/> | <input type="password" value="Password"/> |
| <input type="text" value="Last Name"/> | <input type="password" value="Confirm Password"/> |
| <input type="text" value="Email"/> | |

Subscription Rates

Go to PEWeldBank.com for the current subscription features, details and prices.

“Standard” - AUD 5

This allows the user to calculate Butt Weld Time and Pressure parameters and steps them through the welding process with active timers and alarms. It stores weld information for up to three months.

“Enterprise” - AUD15* per user per month

This includes standard features and includes the ability to store Butt and Electrofusion weld data and connect to Bluetooth Sensor sets for active data recording.

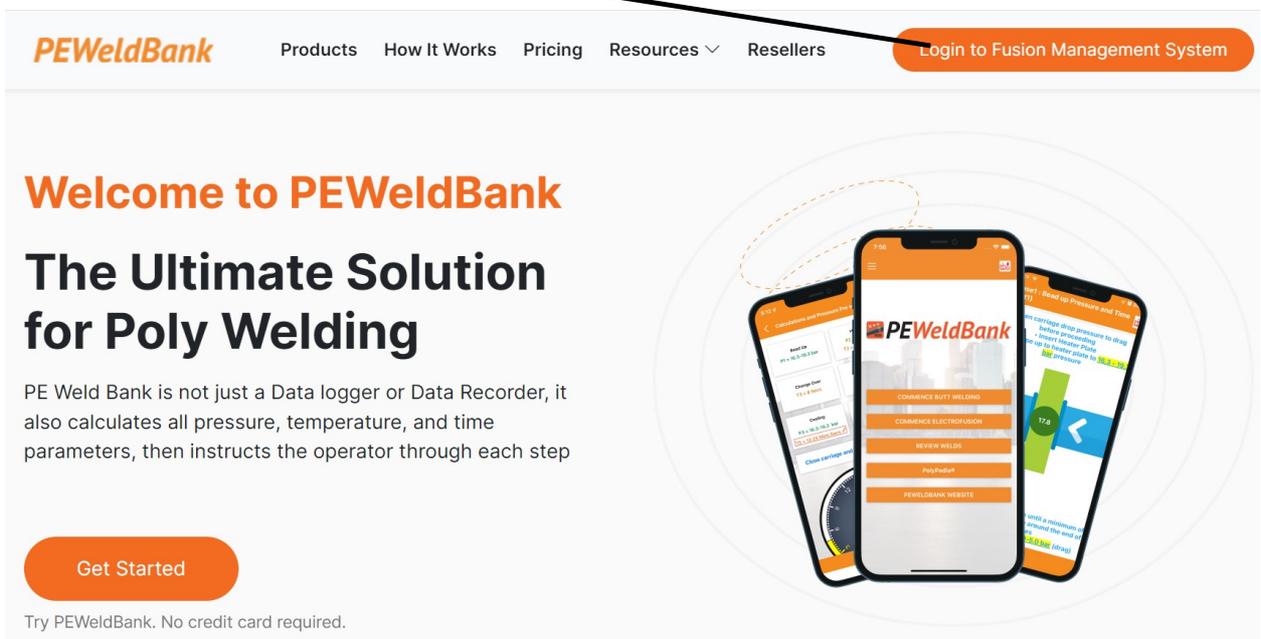
This level also allows for multiple user reports to be stored together within a company database.

How to log in to the Fusion Management System (FMS)

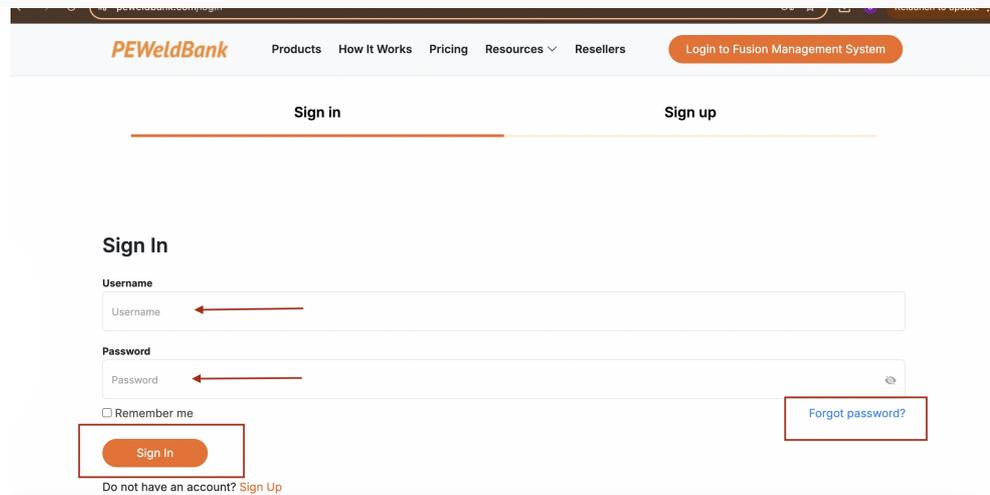


You must subscribe to “Enterprise Subscription” if you want to use sensors

1. Go to *PEWeldBank.com* on your PC or Laptop
2. Click on “Login to Fusion Management System”



3. Login:
User ID
Password
Login

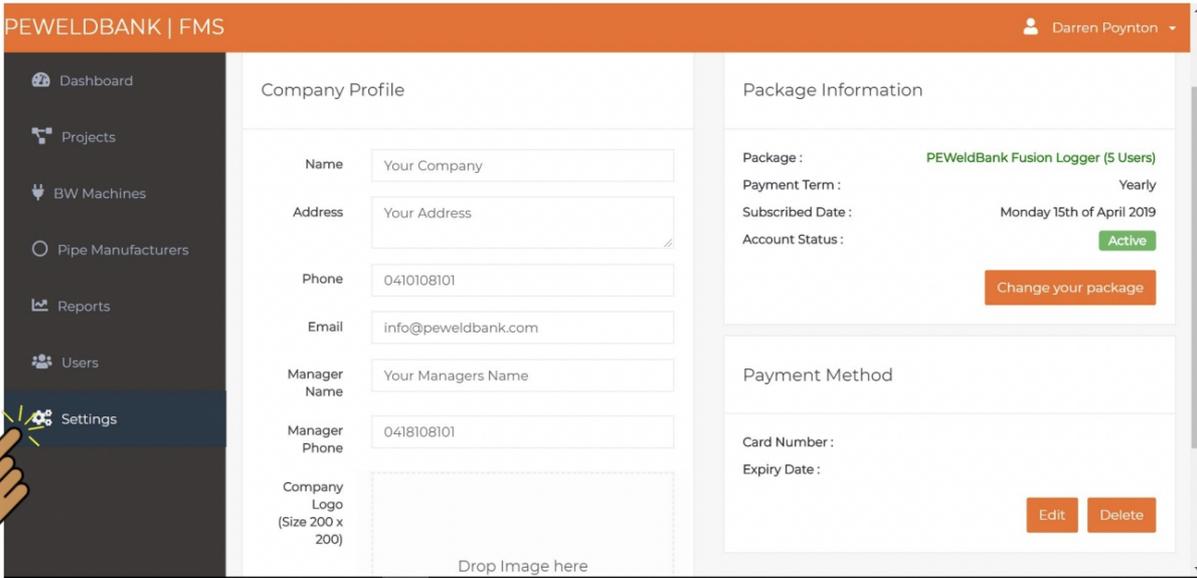


Info@PEWeldBank.com

How to set up Company Details

Step 1, Click on Settings

Enter your Company Details. You can also insert a company logo here, this will be displayed on your reports



PEWELDBANK | FMS Darren Poynton

- Dashboard
- Projects
- BW Machines
- Pipe Manufacturers
- Reports
- Users
- Settings**

Company Profile

Name:

Address:

Phone:

Email:

Manager Name:

Manager Phone:

Company Logo (Size 200 x 200):

Package Information

Package : **PEWeldBank Fusion Logger (5 Users)**

Payment Term : Yearly

Subscribed Date : Monday 15th of April 2019

Account Status : Active

[Change your package](#)

Payment Method

Card Number :

Expiry Date :

[Edit](#) [Delete](#)

Note there are 3 levels of users access;

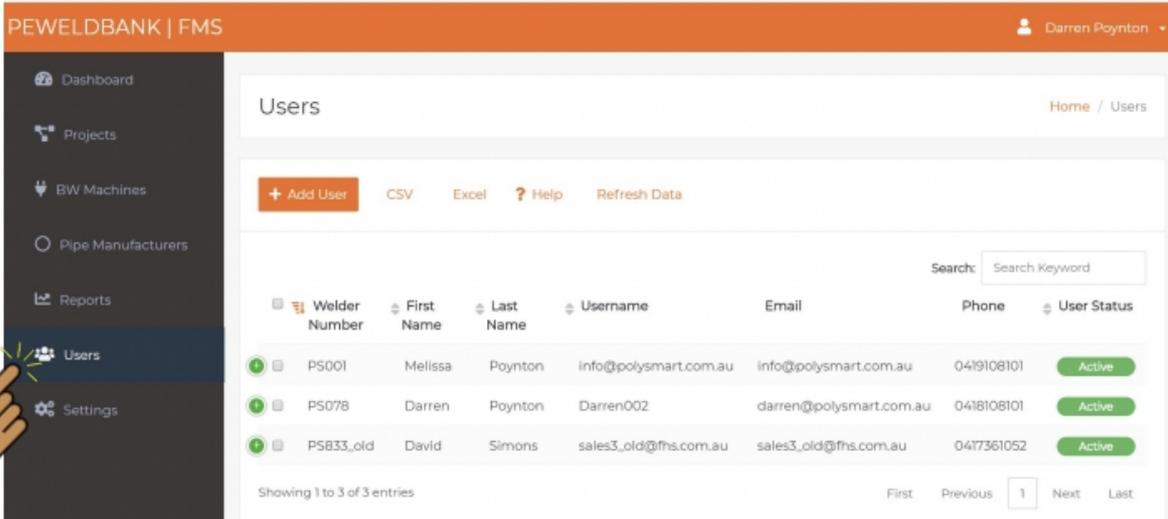
- **Super admin** - This is the person that initially set the system up, they control company details, quantity of users, credit card etc. this user has access to all levels. To change Super admin user they must send an email to info@peweldbank.com and nominate the new Superadmin user from the user list, PEWeldBank will change this ASAP
- **Admin** - Controls adding / deleting, Projects, Users, Butt and Electrofusion machinery, pairing of sensors, pipe manufacturers
- **Welder** - Select projects, machines, pipe and welding standard, use of app to conduct welding

For more information regarding User Hierarchy, see Appendix 4

Set up Users (welder / admin)

Step 2, Click on Users

Set up User Details. You can allocate a User “Welder” or “Admin” rights

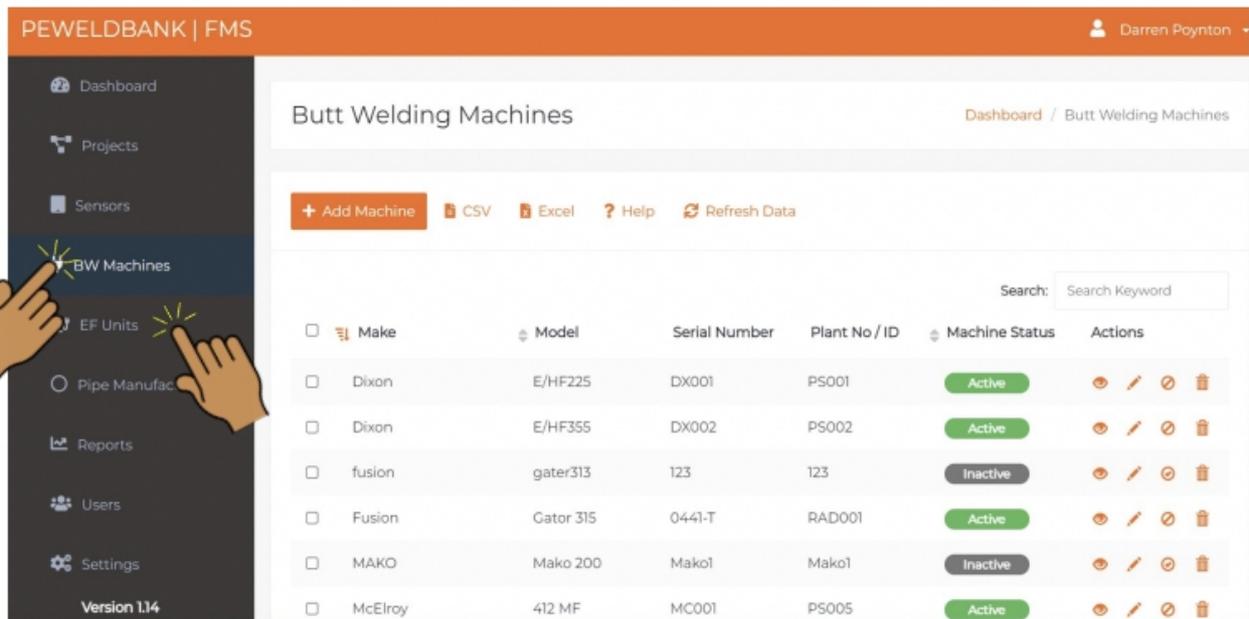


| Welder Number | First Name | Last Name | Username | Email | Phone | User Status |
|---------------|------------|-----------|-----------------------|-------------------------|------------|-------------|
| P5001 | Melissa | Poynton | info@polysmart.com.au | info@polysmart.com.au | 0419108101 | Active |
| P5078 | Darren | Poynton | Darren002 | darren@polysmart.com.au | 0418108101 | Active |
| P5833_old | David | Simons | sales3_old@fhs.com.au | sales3_old@fhs.com.au | 0417361052 | Active |

How to set up Butt Welding and Electrofusion Machines

Step 3, Click on BW Machines or EF Units

Set Up your Butt Welding Machines or Electrofusion Control Units



PEWELDBANK | FMS Darren Poynton

Dashboard / Butt Welding Machines

[+ Add Machine](#) [CSV](#) [Excel](#) [Help](#) [Refresh Data](#)

Search:

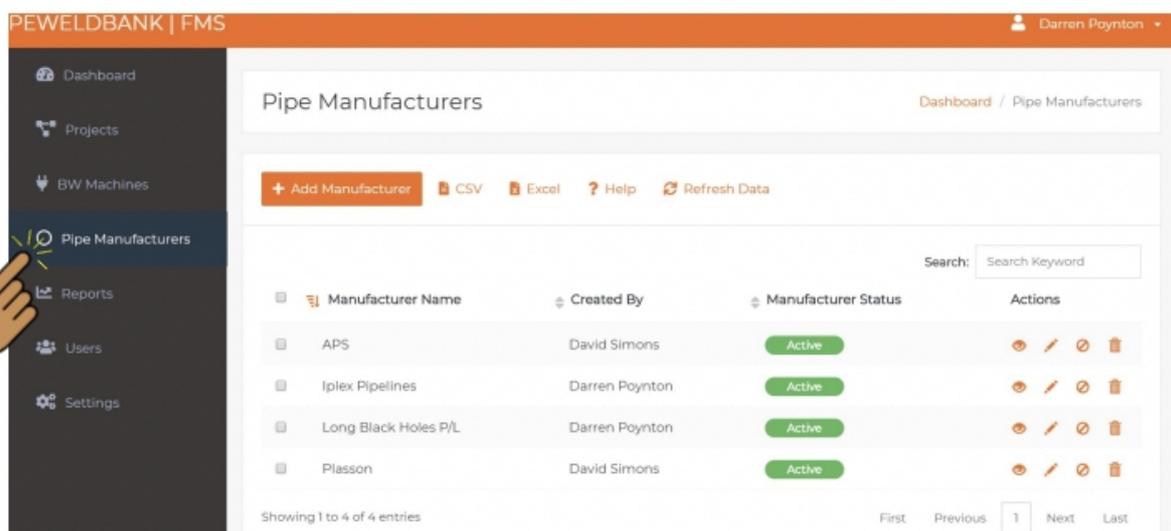
| <input type="checkbox"/> | Make | Model | Serial Number | Plant No / ID | Machine Status | Actions |
|--------------------------|---------|-----------|---------------|---------------|----------------|---------|
| <input type="checkbox"/> | Dixon | E/HF225 | DX001 | PS001 | Active | |
| <input type="checkbox"/> | Dixon | E/HF355 | DX002 | PS002 | Active | |
| <input type="checkbox"/> | fusion | gater313 | 123 | 123 | Inactive | |
| <input type="checkbox"/> | Fusion | Gator 315 | 0441-T | RAD001 | Active | |
| <input type="checkbox"/> | MAKO | Mako 200 | Mako1 | Mako1 | Inactive | |
| <input type="checkbox"/> | McElroy | 412 MF | MC001 | PS005 | Active | |

Version 1.14

Set up Pipe & Fittings Manufacturers

Step 4, Click on Pipe Manufacturers

Set Up your Pipe and Fittings Library



PEWELDBANK | FMS Darren Poynton

Dashboard / Pipe Manufacturers

[+ Add Manufacturer](#) [CSV](#) [Excel](#) [Help](#) [Refresh Data](#)

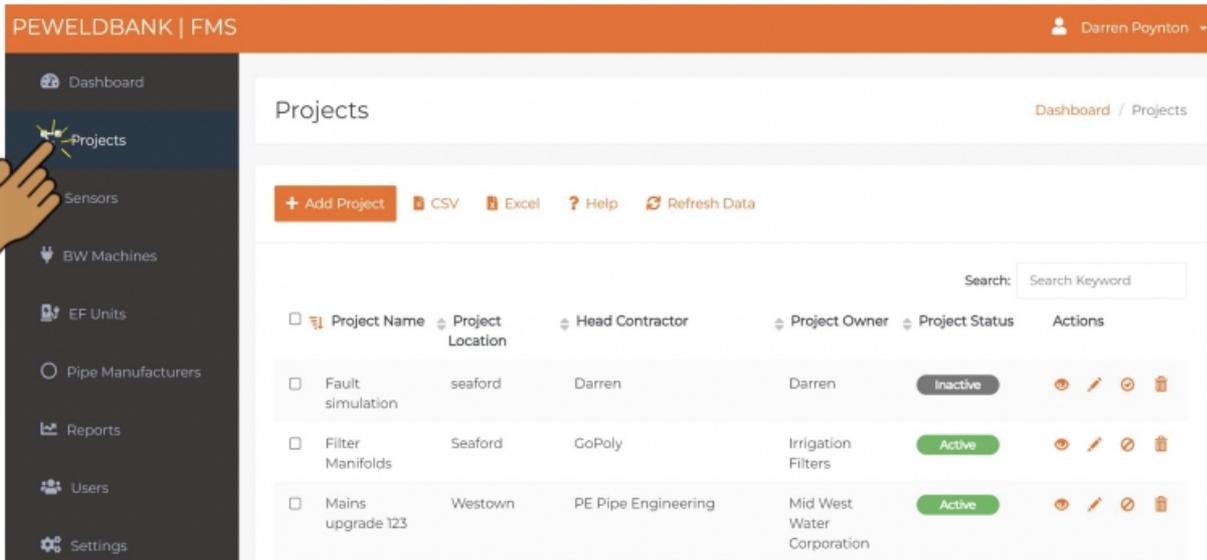
Search:

| <input type="checkbox"/> | Manufacturer Name | Created By | Manufacturer Status | Actions |
|--------------------------|----------------------|----------------|---------------------|---------|
| <input type="checkbox"/> | APS | David Simons | Active | |
| <input type="checkbox"/> | Iplex Pipelines | Darren Poynton | Active | |
| <input type="checkbox"/> | Long Black Holes P/L | Darren Poynton | Active | |
| <input type="checkbox"/> | Plasson | David Simons | Active | |

Showing 1 to 4 of 4 entries First Previous Next Last

Set up Projects / Jobs

Step 5, Click on Projects
Set Up Project Details

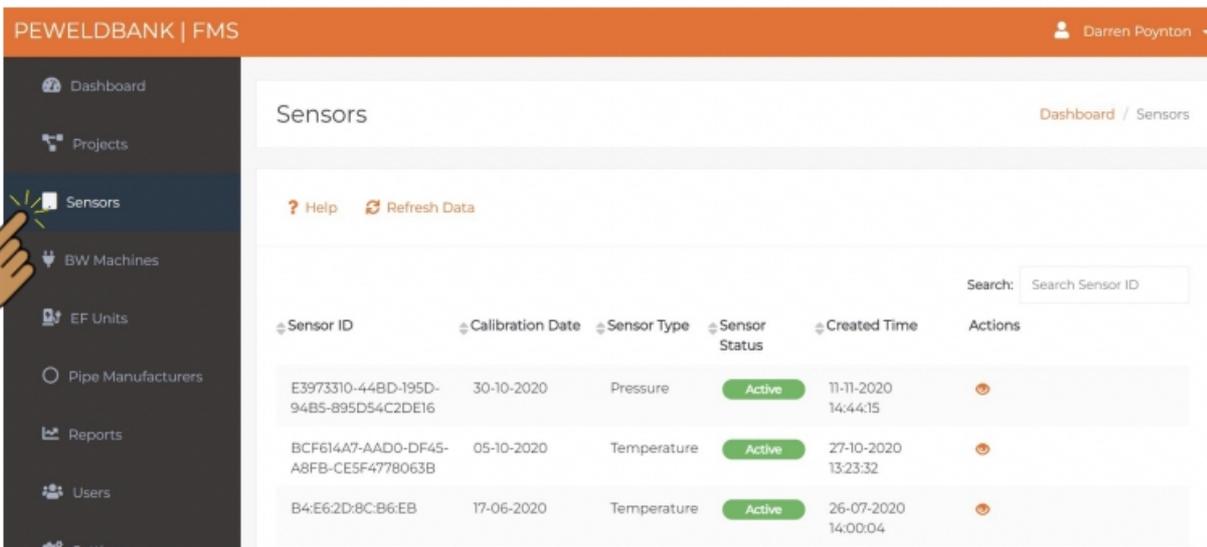


The screenshot shows the 'Projects' page in the PEWELDBANK | FMS system. A hand icon points to the 'Projects' menu item in the left sidebar. The main content area displays a table of projects with columns for Project Name, Project Location, Head Contractor, Project Owner, Project Status, and Actions. The table contains three rows of data.

| Project Name | Project Location | Head Contractor | Project Owner | Project Status | Actions |
|-------------------|------------------|---------------------|----------------------------|----------------|--------------------------------|
| Fault simulation | seaford | Darren | Darren | Inactive | [Eye] [Pencil] [Check] [Trash] |
| Filter Manifolds | Seaford | GoPoly | Irrigation Filters | Active | [Eye] [Pencil] [Check] [Trash] |
| Mains upgrade 123 | Westown | PE Pipe Engineering | Mid West Water Corporation | Active | [Eye] [Pencil] [Check] [Trash] |

Review active sensors

Step 6, Click on Sensors



The screenshot shows the 'Sensors' page in the PEWELDBANK | FMS system. A hand icon points to the 'Sensors' menu item in the left sidebar. The main content area displays a table of active sensors with columns for Sensor ID, Calibration Date, Sensor Type, Sensor Status, Created Time, and Actions. The table contains three rows of data.

| Sensor ID | Calibration Date | Sensor Type | Sensor Status | Created Time | Actions |
|--------------------------------------|------------------|-------------|---------------|---------------------|---------|
| E3973310-44BD-195D-94B5-895D54C2DE16 | 30-10-2020 | Pressure | Active | 11-11-2020 14:44:15 | [Eye] |
| BCF614A7-AAD0-DF45-A8FB-CE5F4778063B | 05-10-2020 | Temperature | Active | 27-10-2020 13:23:32 | [Eye] |
| B4:E6:2D:8C:B6:EB | 17-06-2020 | Temperature | Active | 26-07-2020 14:00:04 | [Eye] |



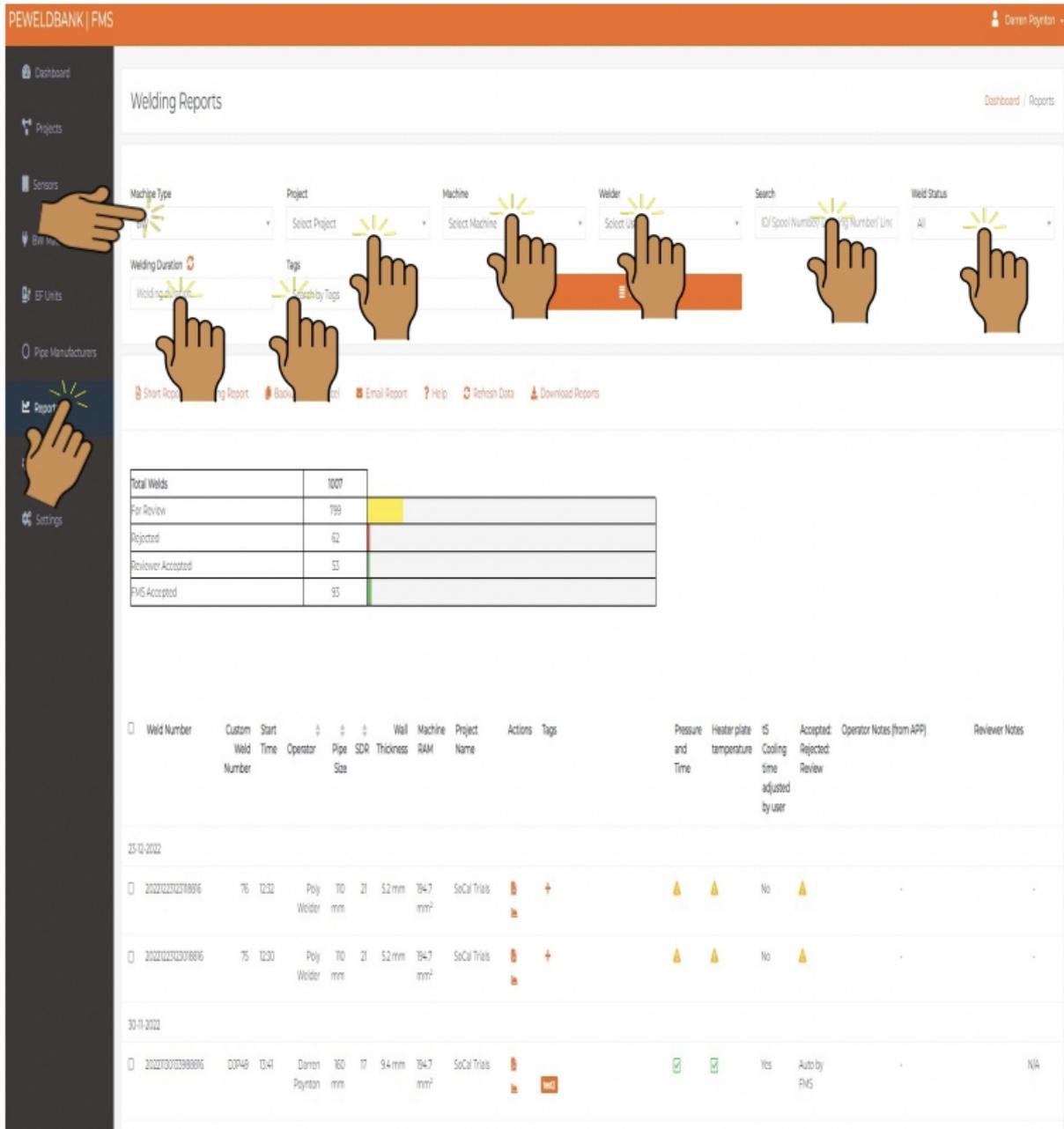
FMS

Reporting System

www.PEWeldBank.com
Info@PEWeldBank.com

Reports

There are multiple reports and sort functions available, you can use one or multiple search features at the same time.



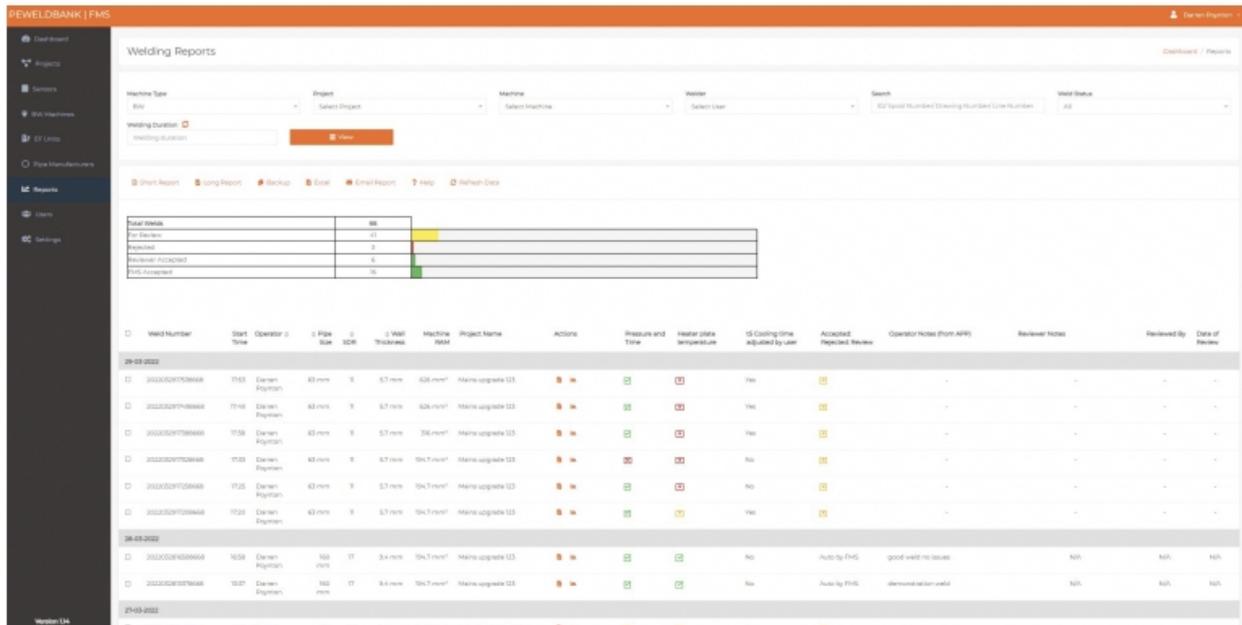
Welding Reports Summary

| Category | Count |
|-------------------|-------|
| Total Welds | 1007 |
| For Review | 799 |
| Rejected | 62 |
| Reviewer Accepted | 53 |
| FMS Accepted | 93 |

| Weld Number | Custom Weld Number | Start Time | Operator | Pipe Size | SDR | Wall Thickness | Machine RAM | Project Name | Actions | Tags | Pressure and Time | Heater plate temperature | IS Cooling time adjusted by user | Accepted/Rejected/Review | Operator Notes (from APP) | Reviewer Notes |
|------------------|--------------------|------------|----------------|-----------|-----|----------------|-----------------------|--------------|---------|------|-------------------|--------------------------|----------------------------------|--------------------------|---------------------------|----------------|
| 23-12-2022 | | | | | | | | | | | | | | | | |
| 2022102312378806 | 76 | 12:32 | Poly Welder | 110 mm | 21 | 5.2 mm | 164.7 mm ² | SoCal Trials | | | | | No | | | |
| 2022102312378806 | 75 | 12:30 | Poly Welder | 110 mm | 21 | 5.2 mm | 164.7 mm ² | SoCal Trials | | | | | No | | | |
| 30-11-2022 | | | | | | | | | | | | | | | | |
| 2022103010398806 | 03048 | 13:41 | Darren Paynter | 160 mm | 17 | 9.4 mm | 164.7 mm ² | SoCal Trials | | | | | Yes | Auto by FMS | | N/A |

Reports

There are multiple reports and sort functions available



On the welding reports page the user can see a list of all welds and create a customised report by one or multiple search headings, then you can select a 4-5 page full report or “Short” or “Long” Reports or export all reports to your own back ups or excel, from this area you can send selected reports directly to you client.

| Search Heading | Search Description |
|------------------|--|
| Machine Type | Butt Welder or Electrofusion |
| Project | Project Name |
| Machine | Make and Model of machine |
| Welder | The user or person doing the welding |
| Search | ID/ Spool Number / Drawing Number / Line Number |
| Weld Status | Status of weld i.e. Accepted, Rejected or waiting for Review |
| Welding Duration | Select time frame |
| Tags | Select tagged reports |

Reports – Full 4-5 page report

There are multiple reports and sort functions available within the FMS, below is an example of the full 4-5 page report.



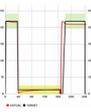
GoPoly Pty Ltd
PO BOX 509
Patterson Lakes
VIC 3197
daren@GOPOLY.COM.AU
0418108101

PEWeldBank Individual Weld Report

| Date | Weld Number | Start Time | Ambient Temp | Status |
|------------|------------------|------------|--------------|--------------|
| 16-03-2022 | 2022031609448597 | 09:47 | 23.9° C | FMS Accepted |

| Weld Details | Required | Actual | Unit |
|---|-----------|-----------|---------|
| P3 bead-up pressure | 39.3-48.4 | 43.3-43.9 | bar |
| T3 bead-up time | 1-48 | 30.00 | Seconds |
| P2 heat soak pressure | 6.0-5.0 | 0.2-2.0 | bar |
| T2 heat soak time | 113-241 | 127 | Seconds |
| T2 heater plate removal time | 48 | 8 | Seconds |
| T4 time to achieve fusion jointing pressure | 47 | 47 | Seconds |
| P3 fusion jointing pressure | 39.3-48.4 | 41.8-42.1 | bar |
| T3 cooling time in machine under pressure | 240-00 | 00.00 | Min:Sec |

*Recommended cooling time has been adjusted by user



Welding Standard

| Standard name | ISO 21307 Single Low Pressure |
|---------------|-------------------------------|
|---------------|-------------------------------|

1 of 5 weld number: 2022031609448597

Welding Company Details

| Name | Contact | Phone |
|----------------|----------------|------------|
| GoPoly Pty Ltd | Darren Poynton | 0418108101 |

Operator Details

| Operator | ID Number | DOB | App Version |
|----------------|-----------|------------|-------------|
| Darren Poynton | PH0098 | 28-03-1961 | 2.2.3 |

Pipe / Fitting Details

| Material | Manufacturer | Type | Shape | METRIC (mm) | | | Batch No. |
|-----------------|--------------|------|-------|-------------|-----|---------|-----------|
| | | | | rn | SDR | rn | |
| Iplex Pipelines | PE100 | Pipe | 160 | 17 | 9.4 | 1235566 | |
| | | | | 17 | 9.4 | | |

Machine Details

| Brand | Model | Ram Size | Serial No. | Calibration Date |
|-------|-----------|-----------------------|--|------------------|
| Ribmo | Basic 160 | 194.7 mm ³ | 135000013C 135000013F 135000013F | 27-08-2021 |

Sensor Details

| Sensor | Model | Serial No. | Calibration Date | Firmware Version |
|------------------------|----------|-------------------|------------------|------------------|
| PEWeldBank Pressure | PWB-P133 | 30-AE-A4-F3-AE-DE | 15-11-2021 | V 1.3.8 |
| PEWeldBank Temperature | PWB-T102 | 30-AE-A4-55-CE-A2 | 31-08-2021 | V 1.0.7 |

Project Details

| Project Name | Job Name | Project Contact Details |
|--------------|----------|-------------------------|
| test 3 | test | test 1234567890 |

Asset Details

| Drawing Number | Spool Number | Line Number |
|----------------|--------------|-------------|
| 12356 | 35776 | 2407 |

GPS Coordinates at Time of Completed Weld

| Longitude | Latitude |
|-----------|------------|
| 145.13582 | -38.112098 |

3 of 5 weld number: 2022031609448597

Heater Plate Target (° C)

| | Front | Back |
|--------------------|---------|------|
| Zone 1 | 223 | 223 |
| Zone 2 | 222 | 226 |
| Zone 3 | 225 | 224 |
| Zone 4 | 224 | 227 |
| Average | 224.16 | |
| Fixed Point Sensor | 228-230 | |

At commencement of weld
Measured during Phase 1 and 2

Quality / Process Checklist

| Is weld area protected? | Yes |
|--|-----|
| Have the pipes been cleaned before placing in machine? | Yes |
| Are pipe ends covered? | Yes |
| Is pipe faced correctly? | Yes |
| Have pipe faces been cleaned? | Yes |
| Have pipe ends been checked for gap? | Yes |
| Is pipe aligned within 10% of wall thickness? | Yes |

Alignment Photo



Finished Weld Photo



Notes

Good test weld

Sketch Pad



4 of 5 weld number: 2022031609448597

Operator Identification Photo



Statement

I, Darren Poynton, agree that I completed this weld correctly and completed checklists honestly.



5 of 5 weld number: 2022031609448597

N.B. Ambient Temperature.

Please note that the ambient temperature sensor is within the Pressure Sensor case, This temperature may be influenced by external factors, such as proximity to hydraulic motor, direct sunlight and charging of battery.

Reports – Short, long and export to excel

There are multiple reports and sort functions available within the FMS, below is an example of a short report and long report and below them is an example of an excel report

GoPoly Pty Ltd
PO BOX 509
Patterson Lakes
Vic 3197
darren@gopoly.com.au
0418108101

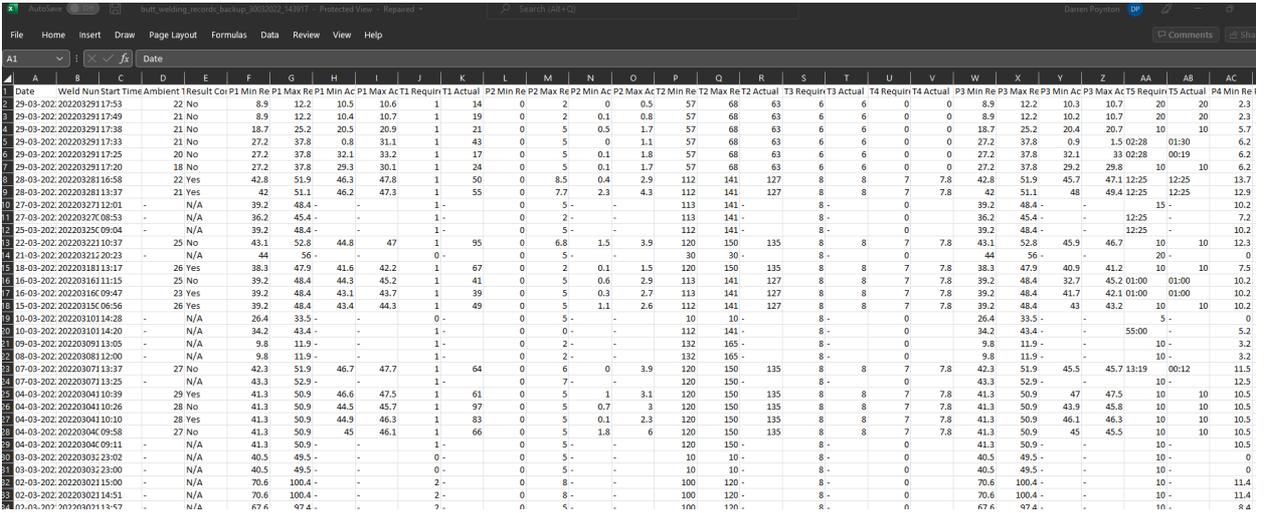
PEWeldBank Weld Summary (Short)

| Date | Weld Number | Start Time | Operator | Pipe Size | SDR | Job number |
|------------|-------------------|------------|----------------|-----------|-----|------------|
| 29-03-2022 | 202203291738668 | 17:53 | Darren Poynton | 63 mm | 11 | 12341234 |
| 29-03-2022 | 202203291749868 | 17:49 | Darren Poynton | 63 mm | 11 | 12341234 |
| 29-03-2022 | 202203291738668 | 17:38 | Darren Poynton | 63 mm | 11 | 12341234 |
| 29-03-2022 | 202203291738668 | 17:33 | Darren Poynton | 63 mm | 11 | 12341234 |
| 29-03-2022 | 202203291725868 | 17:25 | Darren Poynton | 63 mm | 11 | 12341234 |
| 29-03-2022 | 202203291720868 | 17:20 | Darren Poynton | 63 mm | 11 | 12341234 |
| 28-03-2022 | 202203281658868 | 16:58 | Darren Poynton | 160 mm | 17 | 12341234 |
| 28-03-2022 | 202203281378668 | 13:37 | Darren Poynton | 160 mm | 17 | 12341234 |
| 27-03-2022 | 2022032712018822 | 12:01 | Darren Poynton | 160 mm | 17 | PO01 |
| 27-03-2022 | 20220327085285977 | 08:53 | Darren Poynton | 160 mm | 17 | test1 |
| 25-03-2022 | 20220325090485977 | 09:04 | Darren Poynton | 160 mm | 17 | test1 |
| 22-03-2022 | 20220322103785977 | 10:37 | Darren Poynton | 160 mm | 17 | test1 |
| 21-03-2022 | 20220321101285977 | 20:23 | Darren Poynton | 160 mm | 17 | test1 |
| 18-03-2022 | 20220318131485977 | 13:17 | Darren Poynton | 160 mm | 17 | test1 |
| 16-03-2022 | 2022031611185977 | 11:15 | Darren Poynton | 160 mm | 17 | test1 |
| 16-03-2022 | 20220316094485977 | 09:47 | Darren Poynton | 160 mm | 17 | test1 |
| 15-03-2022 | 20220315065685977 | 06:56 | Darren Poynton | 160 mm | 17 | test1 |
| 10-03-2022 | 20220310142885977 | 14:28 | Darren Poynton | 160 mm | 17 | test1 |
| 10-03-2022 | 20220310142085977 | 14:20 | Darren Poynton | 160 mm | 17 | test1 |
| 09-03-2022 | 20220309130485977 | 13:05 | Darren Poynton | 125 mm | 11 | test1 |
| 08-03-2022 | 20220308115885977 | 12:00 | Darren Poynton | 125 mm | 11 | test1 |
| 07-03-2022 | 20220307133685977 | 13:37 | Darren Poynton | 160 mm | 17 | test1 |
| 07-03-2022 | 20220307132485977 | 13:26 | Darren Poynton | 160 mm | 17 | test1 |
| 04-03-2022 | 20220304103985977 | 10:39 | Darren Poynton | 160 mm | 17 | test1 |
| 04-03-2022 | 20220304102085977 | 10:26 | Darren Poynton | 160 mm | 17 | test1 |
| 04-03-2022 | 2022030410085977 | 10:10 | Darren Poynton | 160 mm | 17 | test1 |
| 04-03-2022 | 20220304095885977 | 09:58 | Darren Poynton | 160 mm | 17 | test1 |
| 04-03-2022 | 2022030409185977 | 09:11 | Darren Poynton | 160 mm | 17 | test1 |
| 03-03-2022 | 2022030320285977 | 23:02 | Darren Poynton | 160 mm | 17 | test1 |

GoPoly Pty Ltd
PO BOX 509
Patterson Lakes
Vic 3197
darren@gopoly.com.au
0418108101

PEWeldBank Weld Summary (Long)

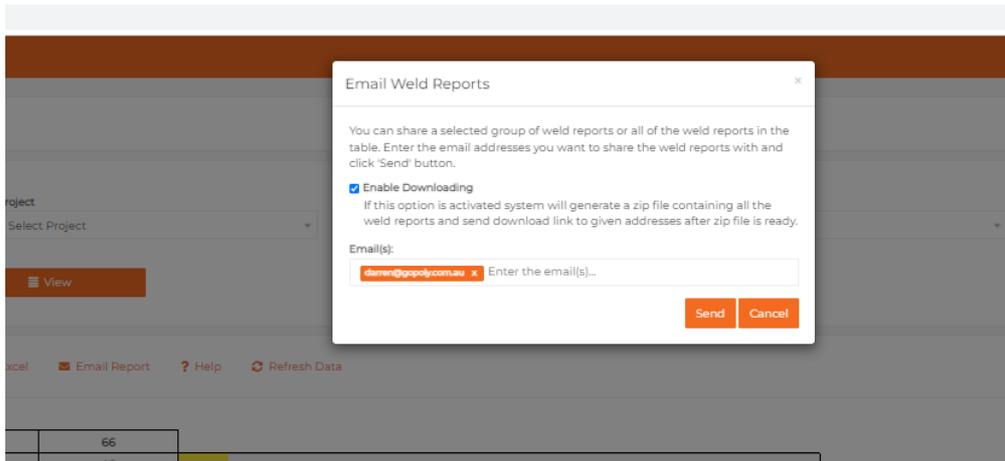
| Date | Weld Number | Start Time | Operator | Pipe Size | SDR | Wall Thickness | Machine RAM | Job number |
|------------|-------------------|------------|----------------|-----------|-----|----------------|-------------|------------|
| 29-03-2022 | 202203291738668 | 17:53 | Darren Poynton | 63 mm | 11 | 5.7 mm | 626 mm² | 12341234 |
| 29-03-2022 | 202203291749868 | 17:49 | Darren Poynton | 63 mm | 11 | 5.7 mm | 626 mm² | 12341234 |
| 29-03-2022 | 202203291738668 | 17:38 | Darren Poynton | 63 mm | 11 | 5.7 mm | 316 mm² | 12341234 |
| 29-03-2022 | 202203291738668 | 17:33 | Darren Poynton | 63 mm | 11 | 5.7 mm | 194.7 mm² | 12341234 |
| 29-03-2022 | 202203291725868 | 17:25 | Darren Poynton | 63 mm | 11 | 5.7 mm | 194.7 mm² | 12341234 |
| 29-03-2022 | 202203291720868 | 17:20 | Darren Poynton | 63 mm | 11 | 5.7 mm | 194.7 mm² | 12341234 |
| 28-03-2022 | 202203281658868 | 16:58 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | 12341234 |
| 28-03-2022 | 202203281378668 | 13:37 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | 12341234 |
| 27-03-2022 | 2022032712018822 | 12:01 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | PO01 |
| 27-03-2022 | 20220327085285977 | 08:53 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 25-03-2022 | 20220325090485977 | 09:04 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 22-03-2022 | 20220322103785977 | 10:37 | Darren Poynton | 160 mm | 17 | 10.0 mm | 194.7 mm² | test1 |
| 21-03-2022 | 20220321101285977 | 20:23 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 18-03-2022 | 20220318131485977 | 13:17 | Darren Poynton | 160 mm | 17 | 10.0 mm | 194.7 mm² | test1 |
| 16-03-2022 | 2022031611185977 | 11:15 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 16-03-2022 | 20220316094485977 | 09:47 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 15-03-2022 | 20220315065685977 | 06:56 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 10-03-2022 | 20220310142885977 | 14:28 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 10-03-2022 | 20220310142085977 | 14:20 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm² | test1 |
| 09-03-2022 | 20220309130485977 | 13:05 | Darren Poynton | 125 mm | 11 | 11.0 mm | 753 mm² | test1 |



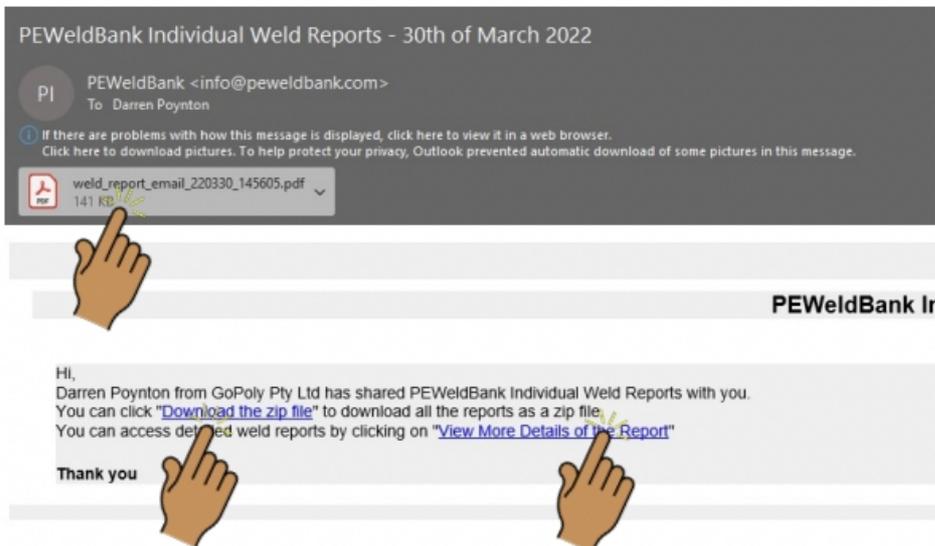
| A1 | Date | Weld Number | Start Time | Ambient | Result | CP | P1 | Min | Ac | P1 | Max | Ac | T1 | Requir | T1 | Actual | P2 | Min | Re | P2 | Max | Ac | T2 | Min | Re | T2 | Max | Ac | T2 | Actual | P3 | Min | Re | P3 | Max | Ac | P3 | Max | Ac | P3 | Max | Ac | T3 | Requir | T3 | Actual | P4 | Min | Re | T4 | Actual |
|----|------------|-------------------|------------|---------|--------|------|------|------|------|----|-----|----|-----|--------|-----|--------|-----|-----|----|----|-----|------|------|------|------|-------|-------|-------|------|--------|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|--------|----|--------|----|-----|----|----|--------|
| 1 | 29-03-2022 | 202203291738668 | 17:53 | 22 | No | 8.9 | 12.2 | 10.5 | 10.6 | 1 | 14 | 0 | 2 | 0 | 0.5 | 57 | 68 | 63 | 6 | 6 | 0 | 0 | 8.9 | 12.2 | 10.3 | 10.7 | 20 | 20 | 20 | 2.3 | | | | | | | | | | | | | | | | | | | | | |
| 2 | 29-03-2022 | 202203291749868 | 17:49 | 21 | No | 8.9 | 12.2 | 10.4 | 10.7 | 1 | 19 | 0 | 2 | 0.1 | 0.8 | 57 | 68 | 63 | 6 | 6 | 0 | 0 | 8.9 | 12.2 | 10.2 | 10.7 | 20 | 20 | 2.3 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 29-03-2022 | 202203291738668 | 17:38 | 21 | No | 18.7 | 25.2 | 20.5 | 20.9 | 1 | 21 | 0 | 5 | 0.5 | 1.7 | 57 | 68 | 63 | 6 | 6 | 0 | 0 | 18.7 | 25.2 | 20.4 | 20.7 | 10 | 10 | 5.7 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 29-03-2022 | 202203291738668 | 17:33 | 21 | No | 27.2 | 37.8 | 0.8 | 31.1 | 1 | 43 | 0 | 5 | 0 | 1.1 | 57 | 68 | 63 | 6 | 6 | 0 | 0 | 27.2 | 37.8 | 0.9 | 1.5 | 02:28 | 01:30 | 6.2 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 29-03-2022 | 202203291725868 | 17:25 | 20 | No | 27.2 | 37.8 | 32.1 | 33.2 | 1 | 17 | 0 | 5 | 0.1 | 1.8 | 57 | 68 | 63 | 6 | 6 | 0 | 0 | 27.2 | 37.8 | 32.1 | 33 | 02:28 | 00:19 | 6.2 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 29-03-2022 | 202203291720868 | 17:20 | 18 | No | 27.2 | 37.8 | 29.3 | 30.1 | 1 | 24 | 0 | 5 | 0.1 | 1.7 | 57 | 68 | 63 | 6 | 6 | 0 | 0 | 27.2 | 37.8 | 29.2 | 29.8 | 10 | 10 | 6.2 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 28-03-2022 | 202203281658868 | 16:58 | 22 | Yes | 42.8 | 51.9 | 46.3 | 47.8 | 1 | 50 | 0 | 8.5 | 0.4 | 2.9 | 112 | 141 | 127 | 8 | 8 | 7 | 7.8 | 42.8 | 51.9 | 45.7 | 47.1 | 12:25 | 12:25 | 13.7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 28-03-2022 | 202203281378668 | 13:37 | 21 | Yes | 42 | 51.1 | 46.2 | 47.3 | 1 | 55 | 0 | 7.7 | 2.3 | 4.3 | 112 | 141 | 127 | 8 | 8 | 7 | 7.8 | 42 | 51.1 | 48 | 49.4 | 12:25 | 12:25 | 12.9 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 27-03-2022 | 2022032712018822 | 12:01 | - | N/A | 39.2 | 48.4 | - | - | 1 | - | 0 | 5 | - | - | 113 | 141 | - | - | - | - | 39.2 | 48.4 | - | - | 15 | - | 10.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 27-03-2022 | 20220327085285977 | 08:53 | - | N/A | 36.2 | 45.4 | - | - | 1 | - | 0 | 2 | - | - | 113 | 141 | - | - | - | - | 36.2 | 45.4 | - | - | 12:25 | - | 7.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 25-03-2022 | 20220325090485977 | 09:04 | - | N/A | 39.2 | 48.4 | - | - | 1 | - | 0 | 5 | - | - | 112 | 141 | - | - | - | - | 39.2 | 48.4 | - | - | 12:25 | - | 10.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 22-03-2022 | 20220322103785977 | 10:37 | 25 | No | 43.1 | 52.8 | 44.8 | 47 | 1 | 95 | 0 | 6.8 | 1.5 | 3.9 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 43.1 | 52.8 | 45.9 | 46.7 | 10 | 10 | 12.3 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 21-03-2022 | 20220321101285977 | 20:23 | - | N/A | 44 | 56 | - | - | 0 | - | 0 | 5 | - | - | 30 | 30 | - | - | - | - | 44 | 56 | - | - | 20 | - | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 18-03-2022 | 20220318131485977 | 13:17 | 26 | Yes | 38.3 | 47.9 | 41.6 | 42.2 | 1 | 67 | 0 | 2 | 0.1 | 1.5 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 38.3 | 47.9 | 40.9 | 41.2 | 10 | 10 | 7.5 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 16-03-2022 | 2022031611185977 | 11:15 | 25 | No | 39.2 | 48.4 | 44.3 | 45.2 | 1 | 41 | 0 | 5 | 0.6 | 2.9 | 113 | 141 | 127 | 8 | 8 | 7 | 7.8 | 39.2 | 48.4 | 43.7 | 45.2 | 01:00 | 01:00 | 10.2 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 16-03-2022 | 20220316094485977 | 09:47 | 23 | Yes | 39.2 | 48.4 | 43.1 | 43.7 | 1 | 39 | 0 | 5 | 0.3 | 2.7 | 113 | 141 | 127 | 8 | 8 | 7 | 7.8 | 39.2 | 48.4 | 41.7 | 42.1 | 01:00 | 01:00 | 10.2 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 15-03-2022 | 20220315065685977 | 06:56 | 26 | Yes | 39.2 | 48.4 | 43.4 | 44.3 | 1 | 49 | 0 | 5 | 1.1 | 2.6 | 112 | 141 | 127 | 8 | 8 | 7 | 7.8 | 39.2 | 48.4 | 43 | 43.2 | 10 | 10 | 10.2 | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 10-03-2022 | 20220310142885977 | 14:28 | - | N/A | 26.4 | 33.5 | - | - | 0 | - | 0 | 5 | - | - | 10 | 10 | - | - | - | - | 26.4 | 33.5 | - | - | 5 | - | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 10-03-2022 | 20220310142085977 | 14:20 | - | N/A | 34.2 | 43.4 | - | - | 1 | - | 0 | 0 | - | - | 112 | 141 | - | - | - | - | 34.2 | 43.4 | - | - | 55:00 | - | 5.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 09-03-2022 | 20220309130485977 | 13:05 | - | N/A | 9.8 | 11.9 | - | - | 1 | - | 0 | 2 | - | - | 132 | 165 | - | - | - | - | 9.8 | 11.9 | - | - | 10 | - | 3.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 08-03-2022 | 20220308115885977 | 12:00 | - | N/A | 9.8 | 11.9 | - | - | 1 | - | 0 | 2 | - | - | 132 | 165 | - | - | - | - | 9.8 | 11.9 | - | - | 10 | - | 3.2 | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 07-03-2022 | 20220307133685977 | 13:37 | 27 | No | 42.3 | 51.9 | 46.7 | 47.7 | 1 | 64 | 0 | 6 | 0 | 3.9 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 42.3 | 51.9 | 45.5 | 45.7 | 13:19 | 00:12 | 11.5 | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 07-03-2022 | 20220307132485977 | 13:26 | - | N/A | 43.3 | 52.9 | - | - | 1 | - | 0 | 7 | - | - | 120 | 150 | - | - | - | - | 43.3 | 52.9 | - | - | 10 | - | 12.5 | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 04-03-2022 | 20220304103985977 | 10:39 | 29 | Yes | 41.3 | 50.9 | 46.6 | 47.5 | 1 | 61 | 0 | 5 | 1 | 3.1 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 41.3 | 50.9 | 47 | 47.5 | 10 | 10 | 10.5 | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 04-03-2022 | 20220304102085977 | 10:26 | 28 | No | 41.3 | 50.9 | 44.5 | 45.7 | 1 | 97 | 0 | 5 | 0.7 | 3 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 41.3 | 50.9 | 43.9 | 45.8 | 10 | 10 | 10.5 | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 04-03-2022 | 2022030410085977 | 10:10 | 28 | Yes | 41.3 | 50.9 | 44.9 | 46.3 | 1 | 83 | 0 | 5 | 0.1 | 2.3 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 41.3 | 50.9 | 46.1 | 46.3 | 10 | 10 | 10.5 | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 04-03-2022 | 20220304095885977 | 09:58 | 27 | No | 41.3 | 50.9 | 45 | 46.1 | 1 | 66 | 0 | 5 | 1.8 | 6 | 120 | 150 | 135 | 8 | 8 | 7 | 7.8 | 41.3 | 50.9 | 45 | 45.5 | 10 | 10 | 10.5 | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 04-03-2022 | 2022030409185977 | 09:11 | - | N/A | 41.3 | 50.9 | - | - | 1 | - | 0 | 5 | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Reports - Email directly to client

The email report option allows you to select welds and then email them to your client. Please note these reports take a short while to generate, if it doesn't come through please ask your client to check their junk or spam box



Your client will receive email similar to this, with 3 options for viewing reports



See 3 report options on next page

Reports - Email directly to client

The first one is a summary.

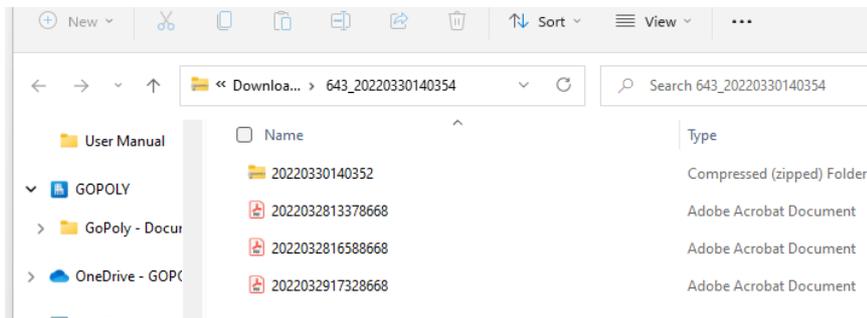


Darren Poynton
GoPoly Pty Ltd
PO BOX 509
Patterson Lakes
Vic 3197
darren@gopoly.com.au
0418108101

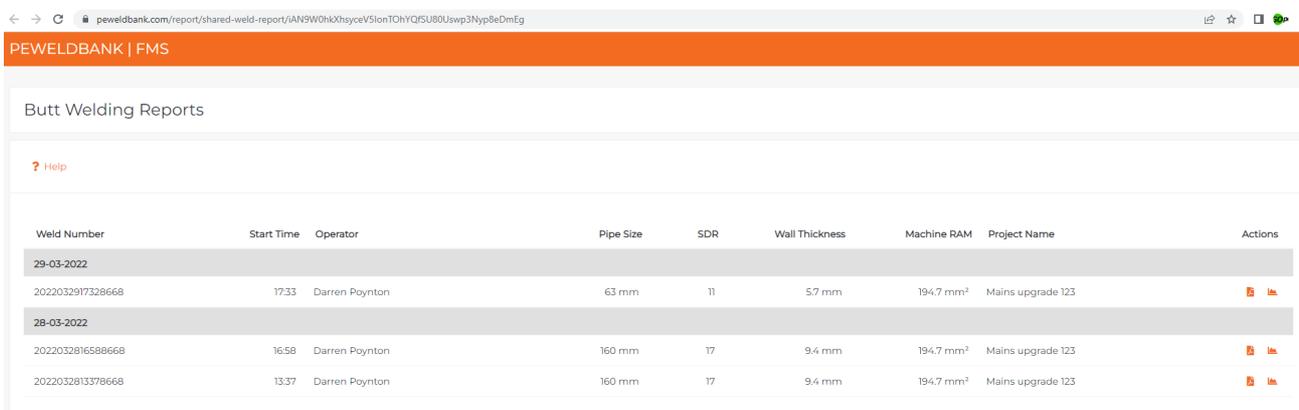
PEWeldBank PEWeldBank Weld Summary (Email)

| Weld Number | Start Time | Operator | Pipe Size | SDR | Wall Thickness | Machine RAM | Project Name |
|-------------------|------------|----------------|-----------|-----|----------------|-----------------------|-------------------|
| 29-03-2022 | | | | | | | |
| 2022032917328668 | 17:33 | Darren Poynton | 63 mm | 11 | 5.7 mm | 194.7 mm ² | Mains upgrade 123 |
| 28-03-2022 | | | | | | | |
| 2022032816588668 | 16:58 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm ² | Mains upgrade 123 |
| 2022032813378668 | 13:37 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm ² | Mains upgrade 123 |

The second is a Zip file holding of each selected weld each PDF is a full 4-5 page report.



The third option gives your client a full report for each weld and access to the weld graph



PEWELDBANK | FMS

Butt Welding Reports

? Help

| Weld Number | Start Time | Operator | Pipe Size | SDR | Wall Thickness | Machine RAM | Project Name | Actions |
|-------------------|------------|----------------|-----------|-----|----------------|-----------------------|-------------------|---|
| 29-03-2022 | | | | | | | | |
| 2022032917328668 | 17:33 | Darren Poynton | 63 mm | 11 | 5.7 mm | 194.7 mm ² | Mains upgrade 123 |   |
| 28-03-2022 | | | | | | | | |
| 2022032816588668 | 16:58 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm ² | Mains upgrade 123 |   |
| 2022032813378668 | 13:37 | Darren Poynton | 160 mm | 17 | 9.4 mm | 194.7 mm ² | Mains upgrade 123 |   |



Smartphone / Tablet User Guide

www.PEWeldBank.com
Info@PEWeldBank.com

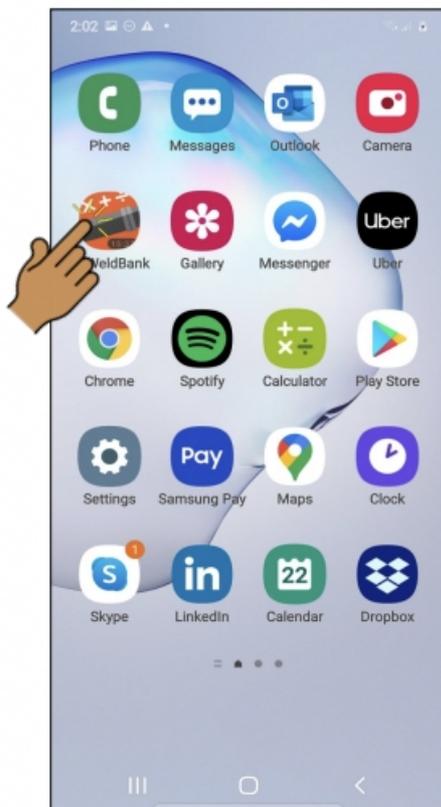


Download **PEWeldBank** app in your preferred store for FREE

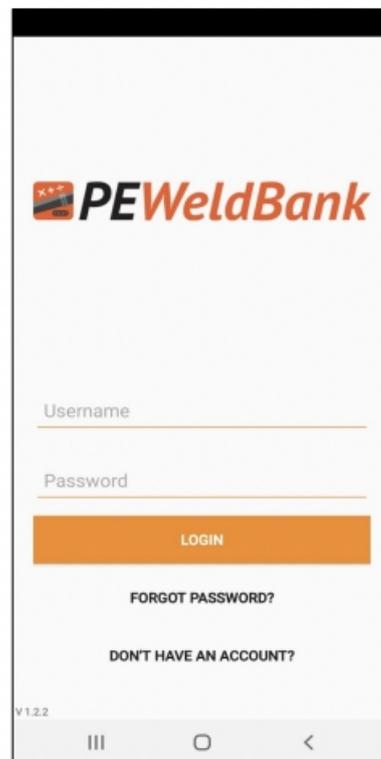
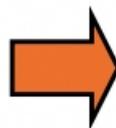
Go to search on Google Play or Apple App store enter “peweldbank”



Once downloaded to your Smartphone or tablet, click on the **PEWeldBank** icon



Use your Username and Password to log in, this will take you to the home screen.



Info@PEWeldBank.com

Home Screen

Operation is very easy to access via the Home Screen

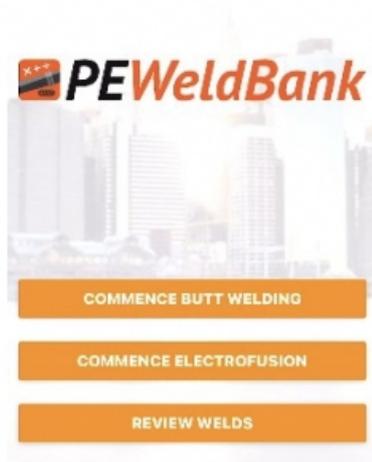
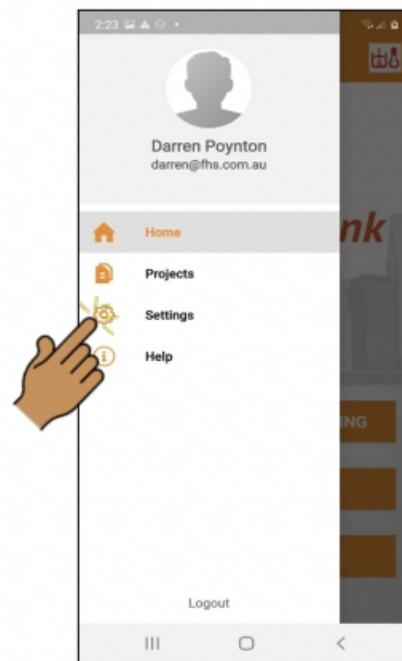


Smartphone / Tablet - Default System Settings

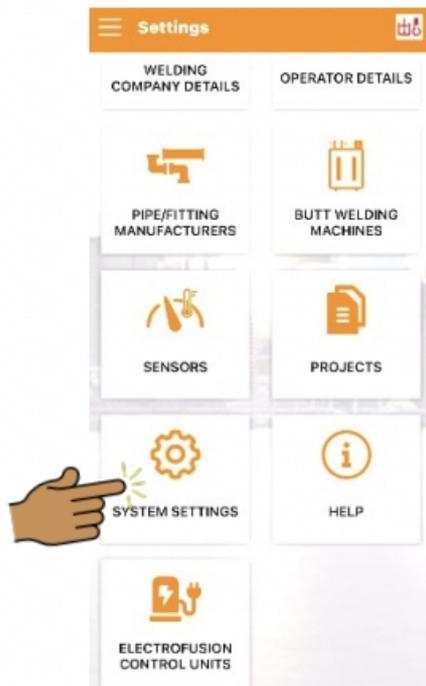
Click on dropdown menu
Click on dropdown menu



Click on menu item
Click on menu item



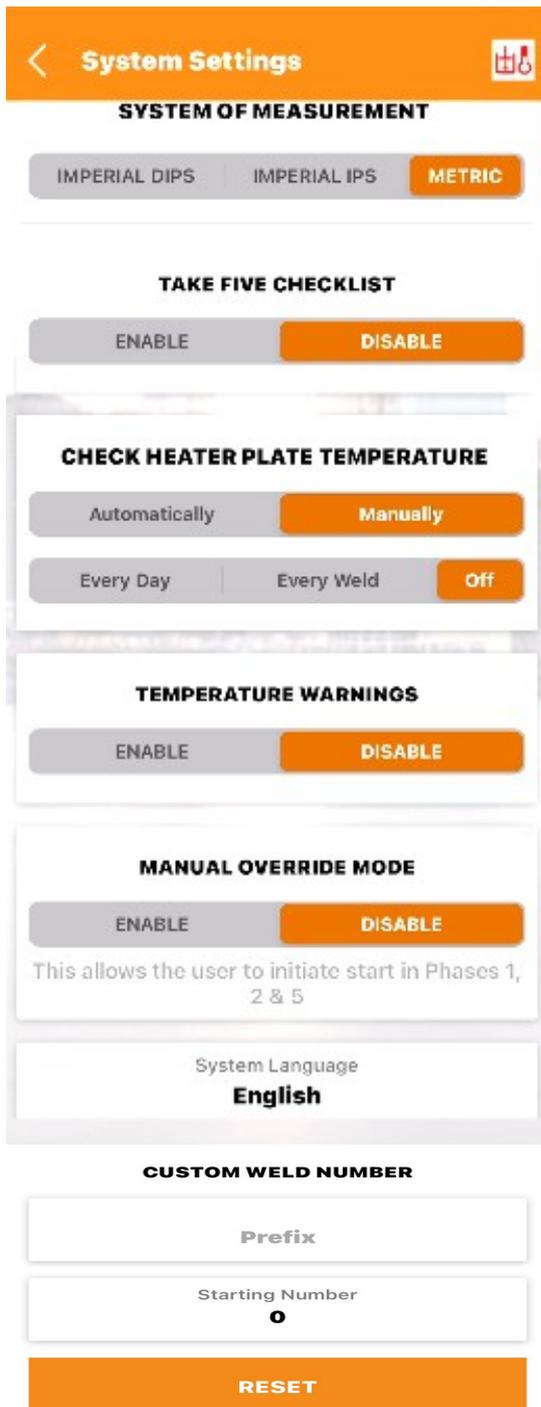
Select **System Settings** to
Edit Settings



Smartphone / Tablet - Default System Settings

Select your preferred defaults before welding

These changes can only be made by user with Superadmin or Admin level



The screenshot shows the 'System Settings' screen with the following sections:

- SYSTEM OF MEASUREMENT**: Three buttons: IMPERIAL DIPS, IMPERIAL IPS, and METRIC (selected).
- TAKE FIVE CHECKLIST**: Two buttons: ENABLE and DISABLE (selected).
- CHECK HEATER PLATE TEMPERATURE**: Two rows of buttons. The first row has 'Automatically' and 'Manually' (selected). The second row has 'Every Day', 'Every Weld', and 'Off' (selected).
- TEMPERATURE WARNINGS**: Two buttons: ENABLE and DISABLE (selected).
- MANUAL OVERRIDE MODE**: Two buttons: ENABLE and DISABLE (selected). Below the buttons, it says: 'This allows the user to initiate start in Phases 1, 2 & 5'.
- System Language**: A dropdown menu showing 'English'.
- CUSTOM WELD NUMBER**: Two input fields. The first is labeled 'Prefix' and is empty. The second is labeled 'Starting Number' and contains '0'.
- RESET**: A large orange button at the bottom.

SYSTEM OF MEASUREMENT

Choose preferred measurements

TAKE 5 CHECK LIST

By enabling this, the app will ask the user to complete Welding Safety questions at the start of a weld session

CHECK HEATER PLATE TEMPERATURE

By enabling this, the app will ask the user to check heater plate temperature at selected interviews or turn this feature off.

TEMPERATURE WARNINGS

When enabled user will be notified if temperature goes out of range

MANUAL OVERRIDE MODE

This enables to initiate start in Phases 1, 2 & 3

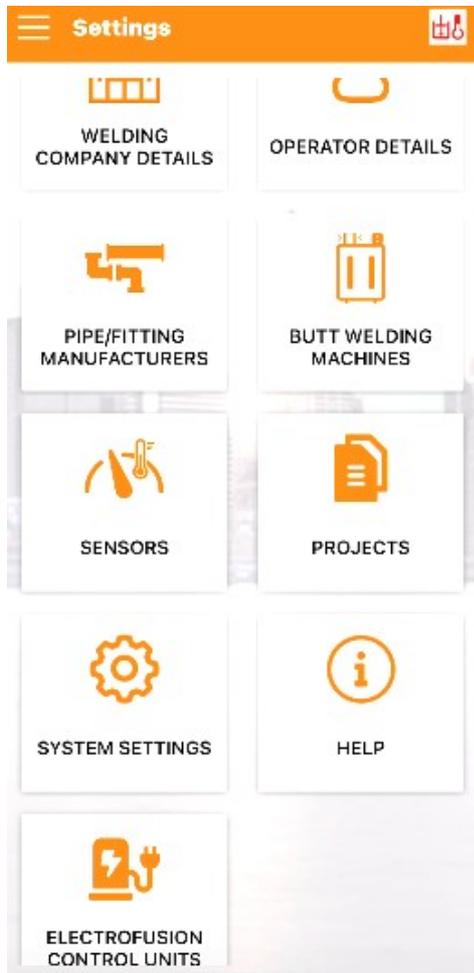
SYSTEM LANGUAGE

Enables user to choose different languages

CUSTOM WELD NUMBER

Set smartphone custom weld number series

Smartphone / Tablet - Settings



All of these options except for Sensors, System Settings and some of the Operator Details can also be edited via the FMS

Smartphone / Tablet Menu Screens ADDING NEW PROJECT

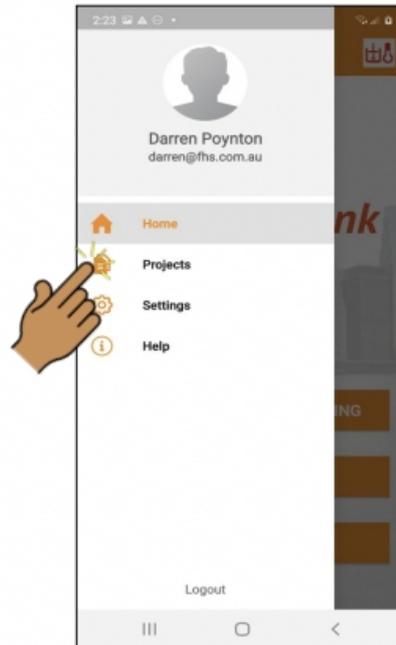
Click on dropdown menu

Click on dropdown menu

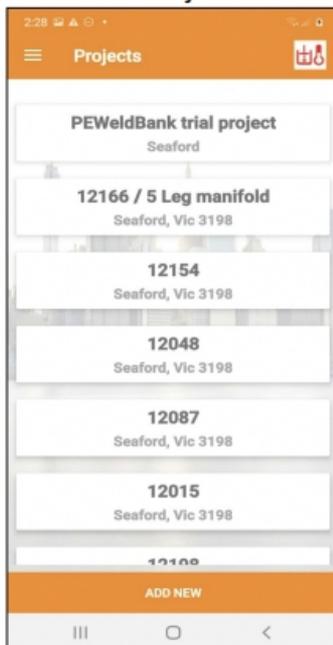


Click on menu item

Click on menu item



Select **Projects** to Edit or Add New Projects

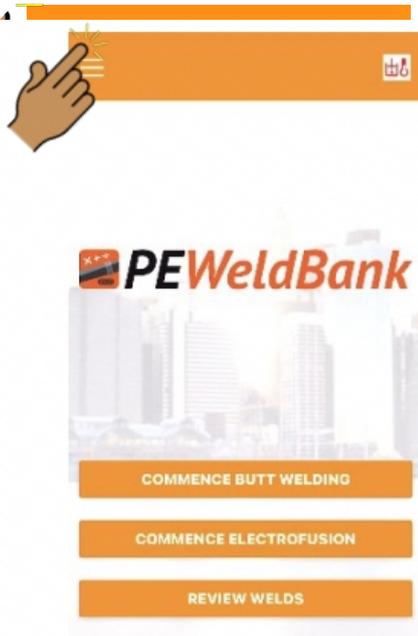


Select **Settings** to Edit Settings



Smartphone / Tablet Menu Screens **ADDING NEW MACHINE**

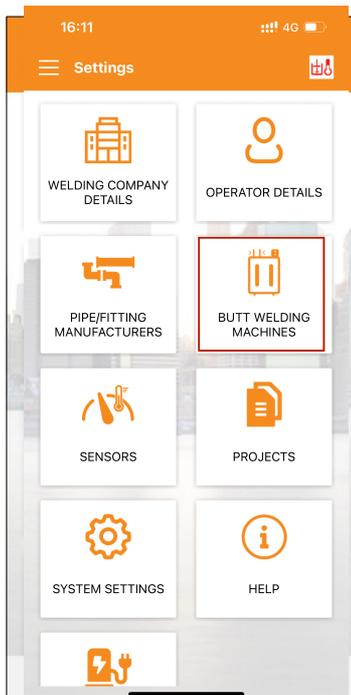
Click on dropdown menu



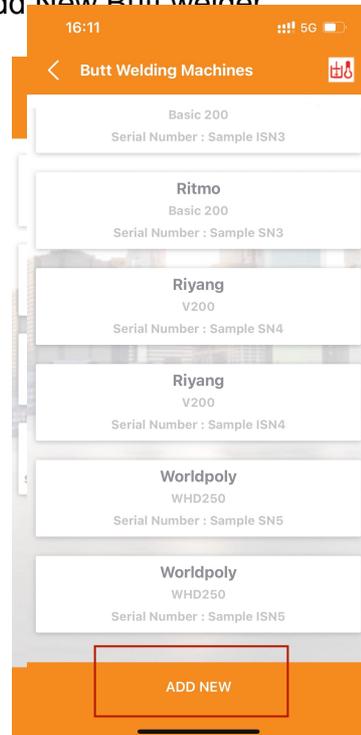
Click on menu item



Select **Butt welding Machines** to Edit



Select **ADD NEW** to Edit or Add New Butt welder





Connection to Hydraulic circuit

www.PEWeldBank.com
Info@PEWeldBank.com

Fitting Hydraulic Transmitter / Transducer to Machine



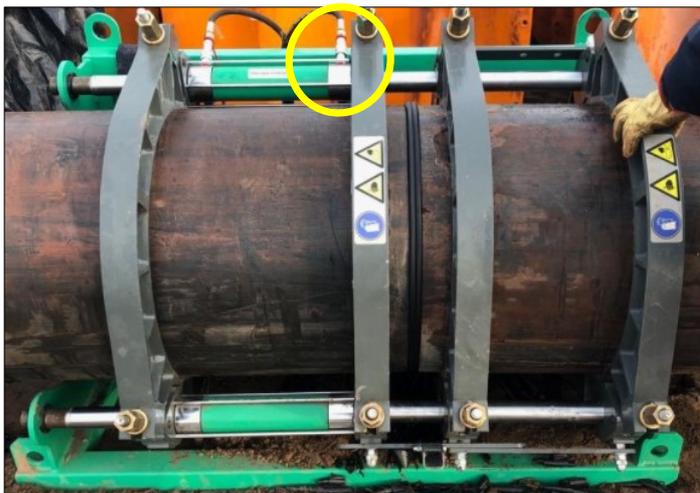
Hydraulic Connection



Many machines have a test port already fitted.

If your machine does not have a test point, you will need to fit a tee with test point to **the closing side of your pressure circuit.**

A tee with connection point can be fitted to a machine where the hoses are fitted to the pressure control unit. Any hydraulic company should be able to fit one for you. See Appendix 1 for examples.



Note:

This is the closing side of the hydraulic cylinder, follow this hose back to your controller. As we set up more machines we will keep a library of connections, please don't hesitate contacting us for assistance with initial set up.

Bluetooth Pressure Sensor Setup

How to connect pressure sensor to Butt welder See also “Appendix 1”



****Before starting ensure both Sensors are fully charged****

Plug charge cable into charging port and charge until the red light turns to green (6 hours)

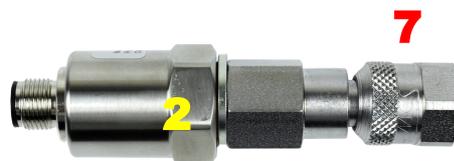
Pressure Sensor Components

- 1 Bluetooth Pressure Sensor
- 2 Hydraulic Transducer
- 3 Orange or Black Hydraulic Sensor Connection cable
- 4 Charging Port
- 5 Charging Indicator Light (Red/Green)
- 6 Bluetooth Connection Status Light (Blue)
- 7 Hydraulic connection
- 8 Hydraulic Sensor Port 1
- 9 Hydraulic Sensor Port 2 (Spare)
- 10 QR code

Connect orange cable here



On the Rear of both Sensors there is a **QR Code** that you scan to enable sensor when prompted by phone or tablet or just select connect to nearest sensor.



Hydraulic Connection Continued



Stauff 20 test point
available from your local
PEWeldBank reseller or hydraulics
supplier



The PEWeldBank Transmitter
This fits to the Stauff test point

Fit the PEWeldBank transmitter to the test point.
Now fit the Orange or Black cable supplied to the Bluetooth pressure sensor **Port 1**
as shown below.





Connection to Heater Plate

www.PEWeldBank.com
Info@PEWeldBank.com

Temperature Sensors dated January 2020

Bluetooth Temperature Sensor Setup

How to use sensor with heater plate.



****Before starting ensure Sensors are fully charged****

Plug charge cable into charging port and charge until the red light turns to green (5 hours)

Pressure Sensor Components

- 1 Bluetooth Temperature Sensor
- 2 Surface Temperature Probe
- 3 Charging Port
- 4 Charging Indicator Light (Red/Green)
- 5 Bluetooth Connection Status Light (Blue)
- 6 Spare Port
- 7 Port for surface probe (marked Fixed)
- 8 QR code

Connect surface probe here



On the Rear of both Sensors there is a **QR Code** that you scan to enable sensor when prompted by phone or tablet



2



Temperature Sensors dated March 2022 & later

Bluetooth Temperature Sensor Setup

How to connect your Temperature Sensor to your heater plate. “See Appendix 3”



****Before starting ensure Sensors are fully charged****

Plug charge cable into charging port and charge until the red light turns to green (5 hours)

Pressure Sensor Components

- 1 Bluetooth Temperature Sensor
- 2 Surface Temperature Probe
- 3 Charging Port
- 4 Charging Indicator Light (Red/Green)
- 5 Bluetooth Connection Status Light (Blue)
- 6 Port for Surface probe
- 7 Port for Fixed PT100 connection
- 8 QR code
- 9a PT100 connection cable for Ritmo*
- 9b PT100 connection cable for others*



On the Rear of both Sensors there is a **QR Code** that you scan to enable sensor when prompted by phone or tablet

*see appendix 3





Pairing Sensors to Phone or Tablet

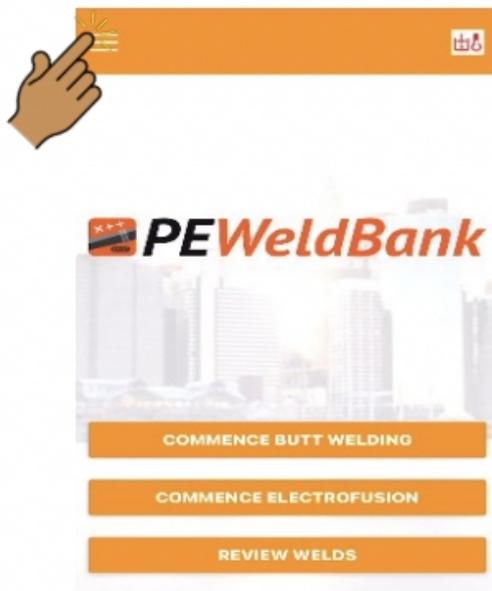
www.PEWeldBank.com
Info@PEWeldBank.com

Bluetooth Setup & Pairing of Sensors

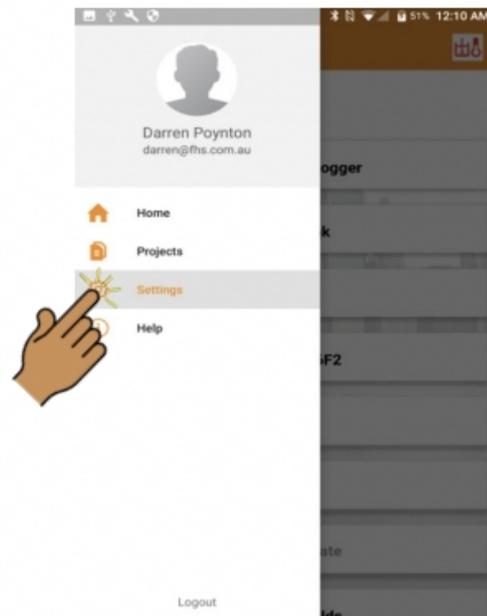
 **N.B.** you can only use sensor set with **PEWeldBank Fusion Logger** subscription, For initial pairing you must also have administrator user level permission and connection to the internet

Ensure that Bluetooth is enabled on your smartphone / tablet. Follow the prompts

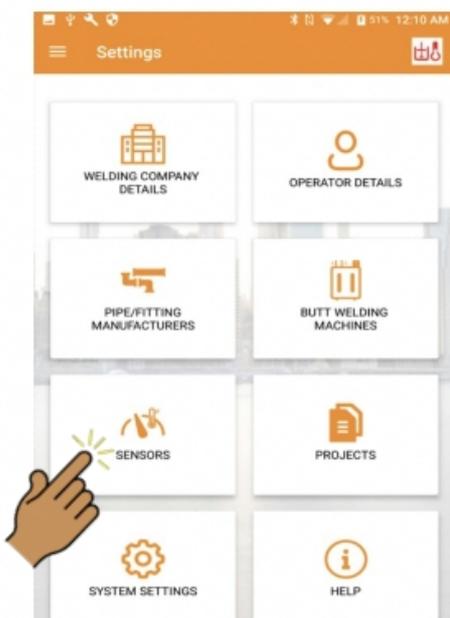
1. Click **Dropdown Menu**



2. Click **Settings**



3. Click **Sensors**



4. Click **Add New**



Bluetooth Setup & Pairing of Sensors Continued

Pairing of Sensors

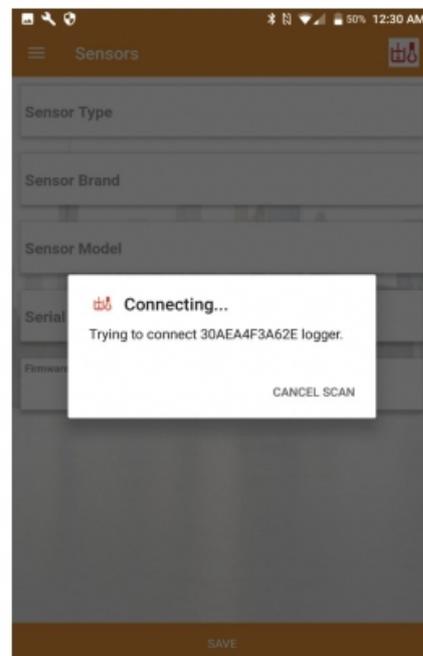
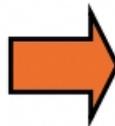
- Connect Pressure sensor to pressure at least 2 bar.
- For the Temperature sensor holding the Surface Temperature Probe against heater plate (at least 80°C / 176°F) will activate the sensor.
- The status light will flash, enabling you to proceed with Bluetooth pairing.

Alternatively

- Remove and replace the battery from the sensor, this will activate and status light will flash for 2 minutes enabling you to proceed with Bluetooth pairing.
- Status light must be flashing fast before proceeding.

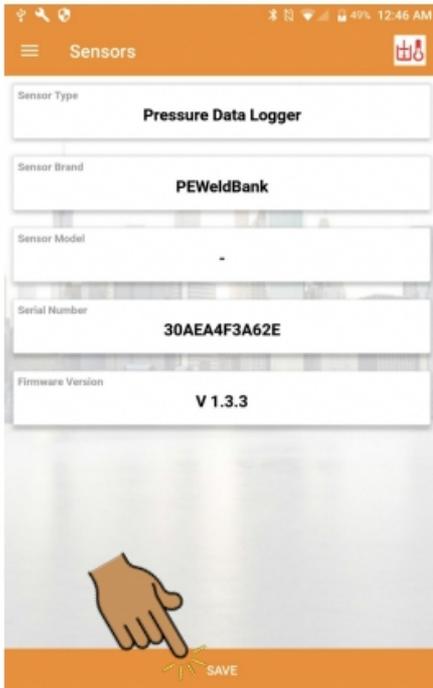
Follow instructions in Dropdown menu on smartphone or tablet [settings] [sensors] [add new] [save]

Scan QR code:

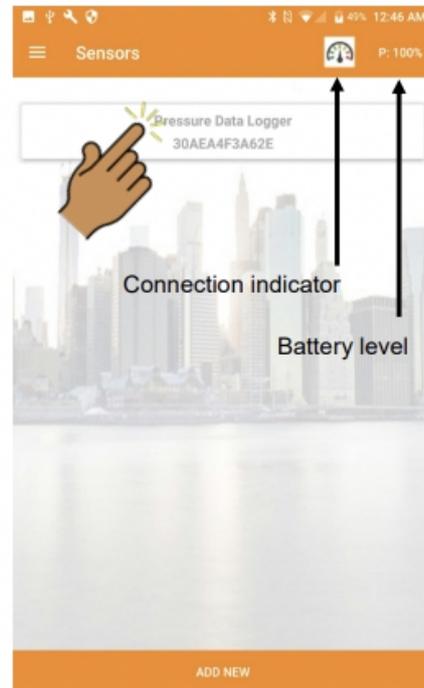


Bluetooth Setup & Pairing of Sensors Continued

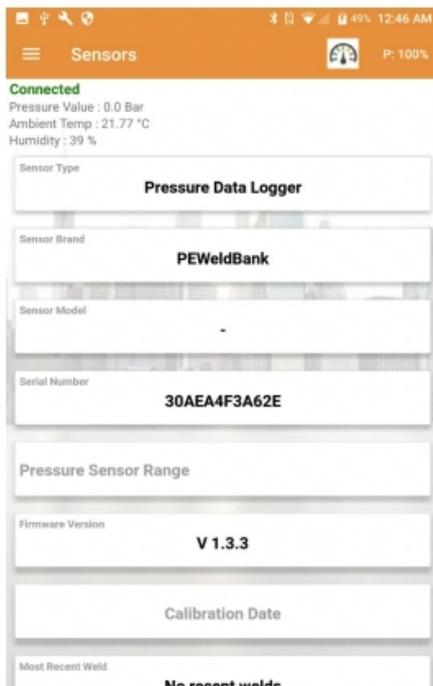
Click Save



Check connected sensor



Connected



When connected blue Light on the sensor will flash slowly



Click Drop down menu to return to home screen follow instructions again for second sensor



To remove a sensor from Phone or Tablet select sensor you want to remove and click and hold for 2 seconds then delete, for iOS swipe then delete

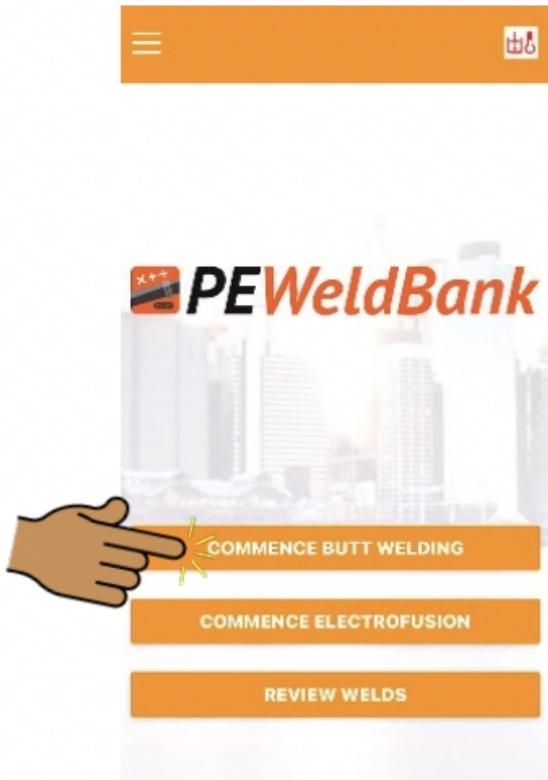


Welding Procedure for App

Also see Basic Welding Machine Operating Procedure

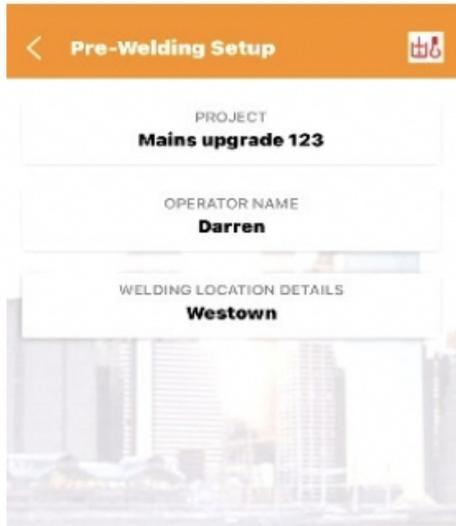
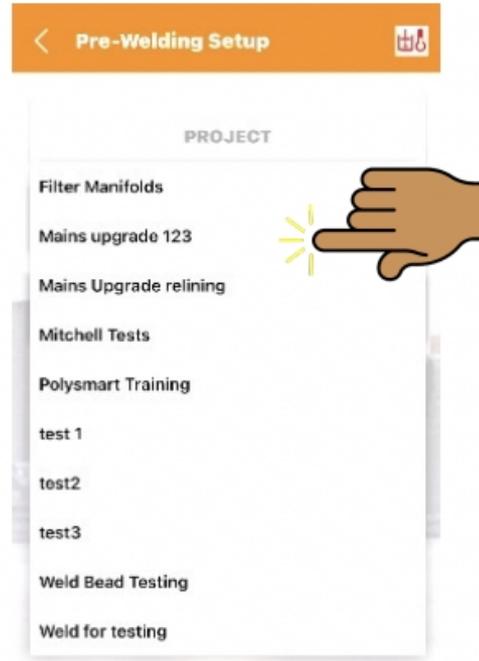
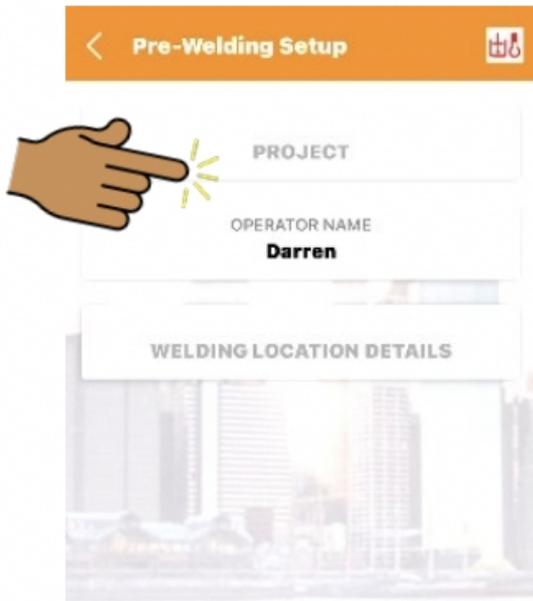
www.PEWeldBank.com
Info@PEWeldBank.com

Home Screen: Commence Butt welding or Electrofusion



From this screen you can commence Butt welding or Electrofusion.
You can also review previous welds or allocate a second GPS location

Select Project



From this screen you need to select a project.

The Projects can be set up from within this app or from the FMS.

Note: You must have Admin access to set up projects, however User or Admin may select a project to use.

Safety “Take Five”



4:51 Safety 'Take 5' P: 80%

STOP (Ask yourself)

Am I aware of crushing points? (hydraulic movement) YES NO NA

Am I aware of sharp objects? (facing blades) YES NO NA

Am I aware of burning (heating plate) YES NO NA

Have I protected myself from energy sources? (electrical, hydraulic, temperature) YES NO NA

THINK

If a procedure or work instruction exists for the job am I familiar with it? YES NO NA

Am I trained, competent and authorised to do the job? YES NO NA

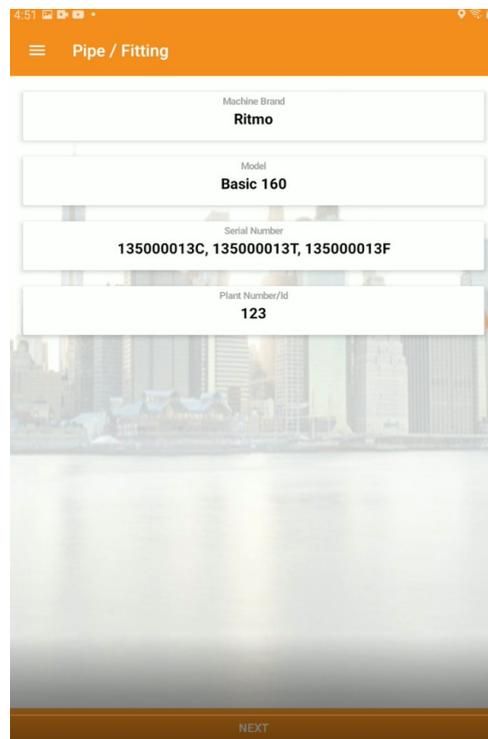
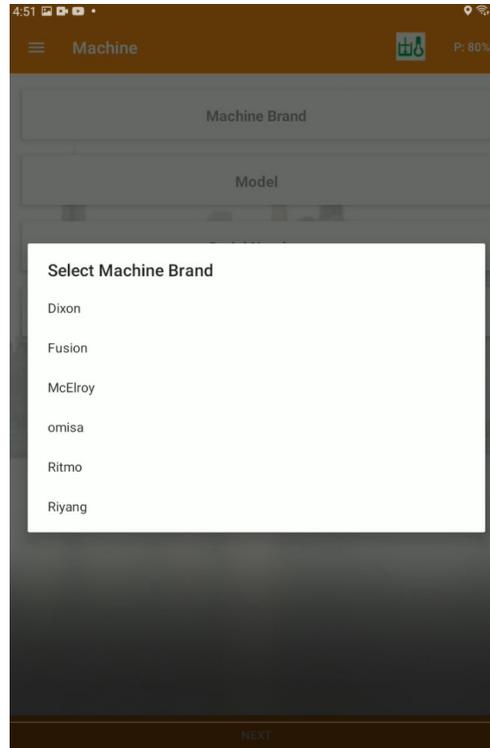
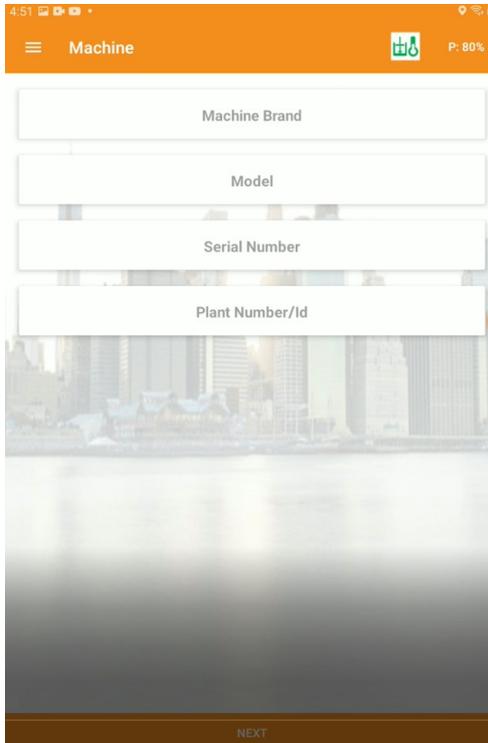
Do I have fit for purpose tools, equipment and PPE? YES NO NA

Can I control the risks associated with

PROCEED - PERFORM THE TASK SAFELY

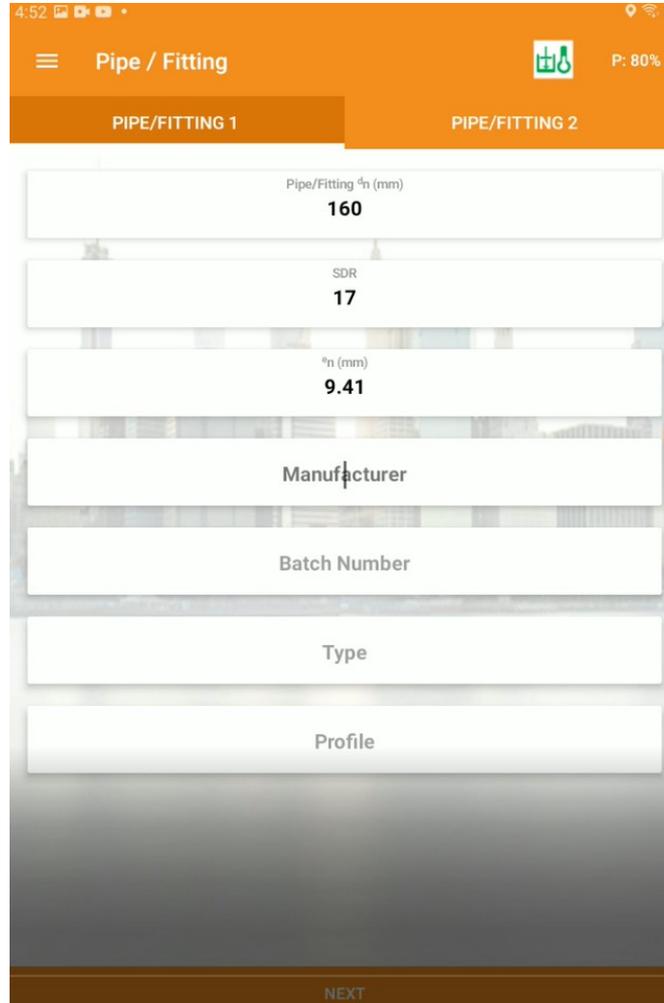
This is a 12 question OH&S assessment, these questions are asked of the user at the start of the welding session.
This information is collected and recorded within reports, available within FMS
By default this option is disabled, this option may be enabled within System Settings

Machine selection



From this screen you will need to select a Machine.
Machines can be added and edited from within this app or from the FMS.
Note: You must have Admin access to set up projects, however User or Admin may select a machine to use.
By selecting machine it will use stored hydraulic ram information for pressure calculations, and machine data in reports.

Pipe / Fitting selection

A screenshot of a mobile application interface for pipe and fitting selection. The screen has an orange header with a menu icon, the title 'Pipe / Fitting', a green icon of a pipe and fitting, and a progress indicator 'P: 80%'. Below the header are two tabs: 'PIPE/FITTING 1' (selected) and 'PIPE/FITTING 2'. The main content area consists of several white input fields with rounded corners, each containing a label and a value: 'Pipe/Fitting ^{dn} (mm)' with '160', 'SDR' with '17', '^{en} (mm)' with '9.41', 'Manufacturer', 'Batch Number', 'Type', and 'Profile'. At the bottom of the screen is a dark brown bar with the word 'NEXT' in white capital letters.

From this screen you will need to select a Pipe size and SDR, pipe wall thickness is automatically calculated but can be adjusted manually.

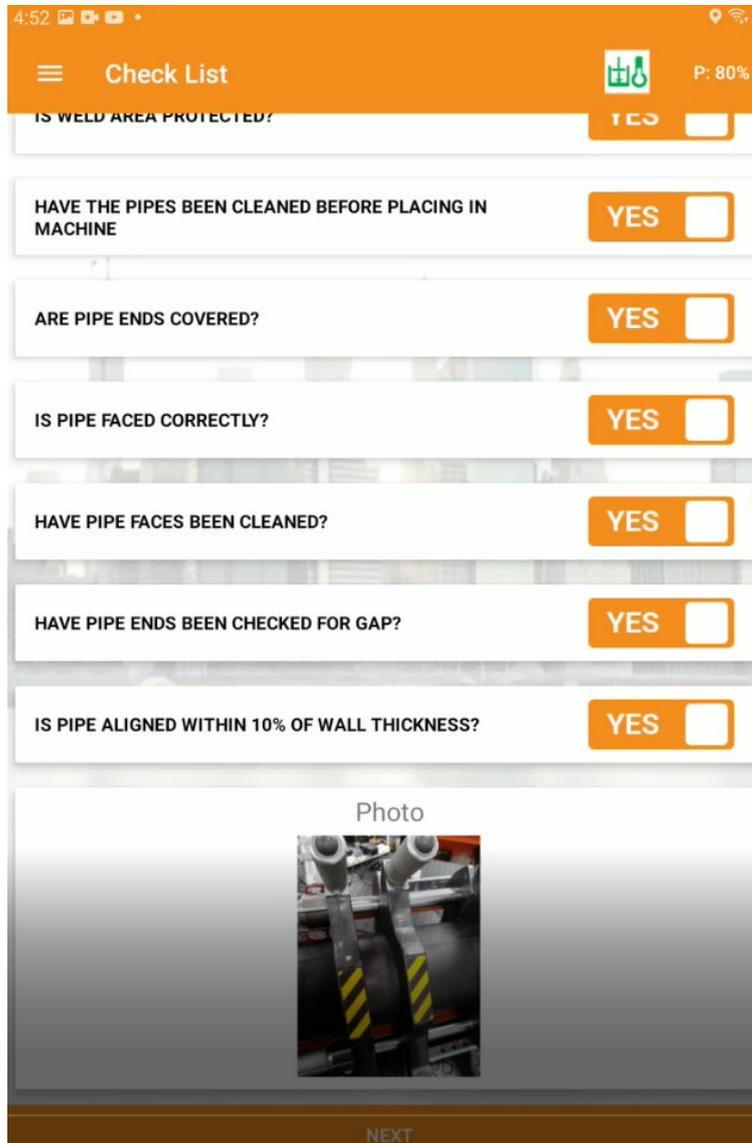
Manufacturer, Type and Profile fields are optional.

Pipe data can be added and edited from within this app or from the FMS.

Note: You must have Admin access to set up projects, however User or Admin may select a machine to use.

By selecting machine it will use stored hydraulic ram information for pressure calculations, and machine data in reports.

Pre weld check list



The screenshot shows a mobile application interface for a pre-weld checklist. The title bar is orange and contains a menu icon, the text "Check List", a green icon of a person with a tool, and "P: 80%". The checklist consists of seven items, each with a question and a "YES" button followed by a checkbox:

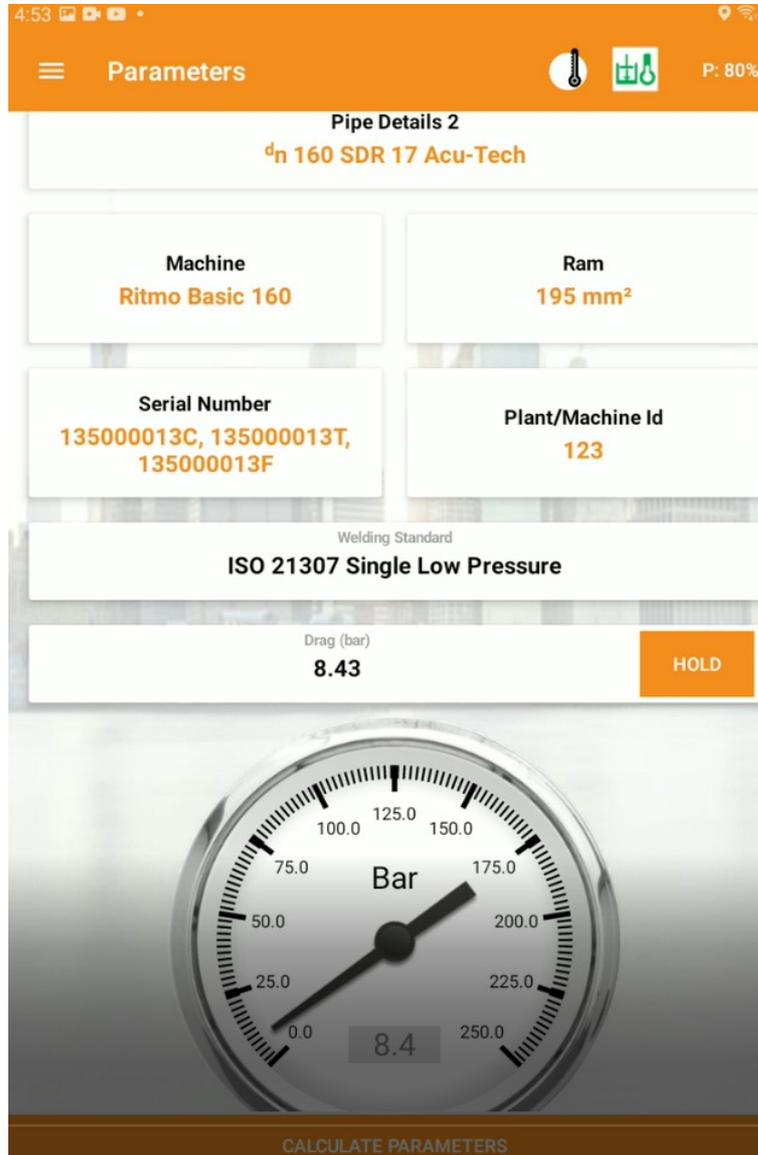
- IS WELD AREA PROTECTED? YES
- HAVE THE PIPES BEEN CLEANED BEFORE PLACING IN MACHINE YES
- ARE PIPE ENDS COVERED? YES
- IS PIPE FACED CORRECTLY? YES
- HAVE PIPE FACES BEEN CLEANED? YES
- HAVE PIPE ENDS BEEN CHECKED FOR GAP? YES
- IS PIPE ALIGNED WITHIN 10% OF WALL THICKNESS? YES

Below the checklist is a section labeled "Photo" with a camera icon and a photo of pipe alignment. At the bottom of the screen is a "NEXT" button.

This check list has 7 optional questions, these questions default to NO and are included on reports, however you do not need to answer these to be able to move onto the next screen.

Upon selecting yes to the last question the camera will be activated to allow user to take a photo of pipe alignment and gap.

Parameters

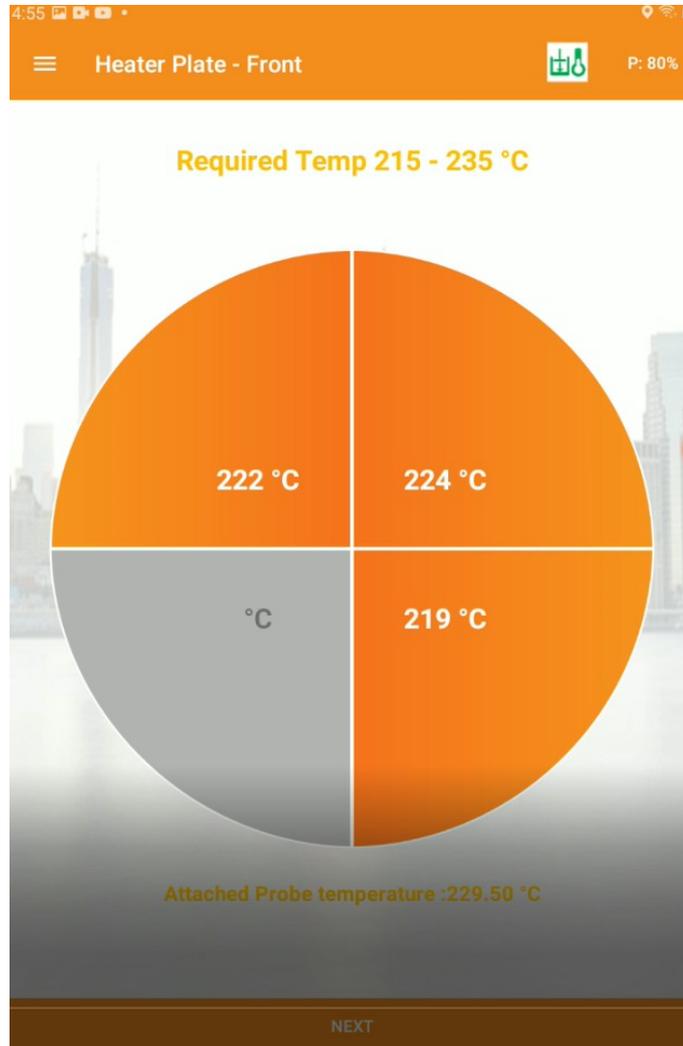


The Parameters screen displays a review of pipe and machinery and asks user to enter preferred **welding standard**, this preference is set as a default until the start of a new session.

The **drag** also needs to be entered in this screen.

Note: The Pressure Gauge will be active only when sensor set is supplied and paired.

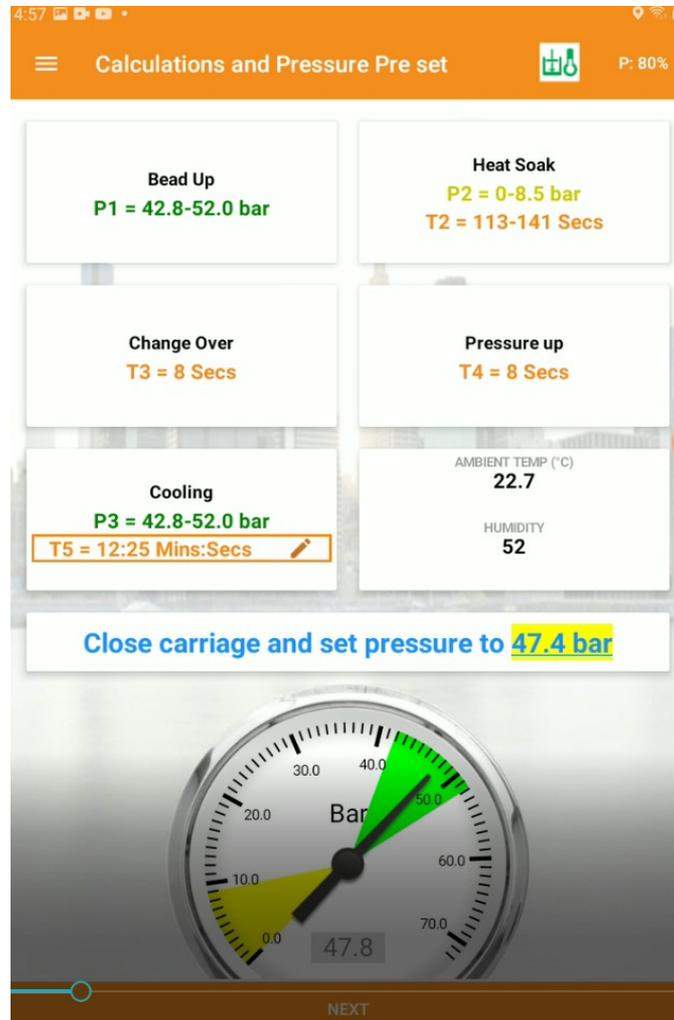
Check Heater plate



When connected to temperature sensor set, this screen automatically logs temperature during Bead up and heat soak phases, also using the supplied surface temperature probe the user can accurately record the surface temperature at the start of the welding session or at the start of every weld or turn to manual entry, _

This temperature recording options can be adjusted within system settings

Calculation and Pressure Pre set

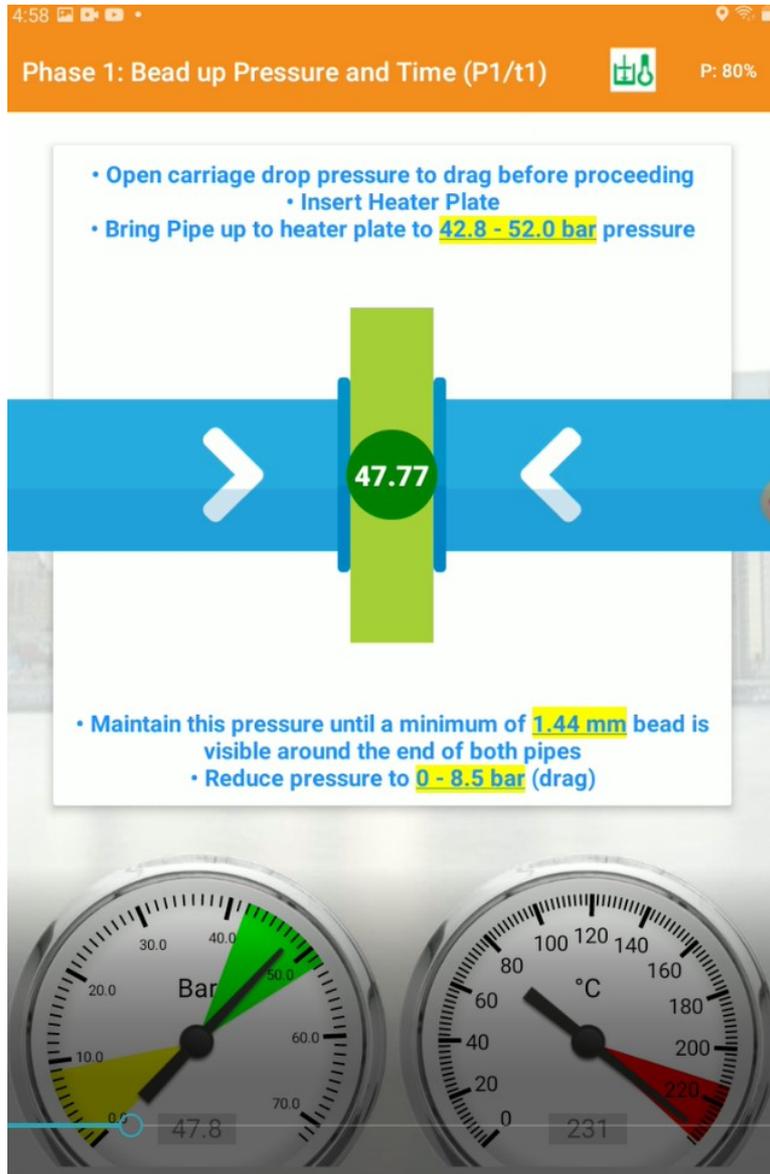


When connected to pressure sensor set, this screen automatically logs Ambient temperature and Humidity, if not connected to sensor set these can be added manually.

This screen also allows the user to manually adjust T5 cooling time to allow for Reduced cooling times or extending the time when allowance for rough handling is required. This adjustment is noted on weld reports!

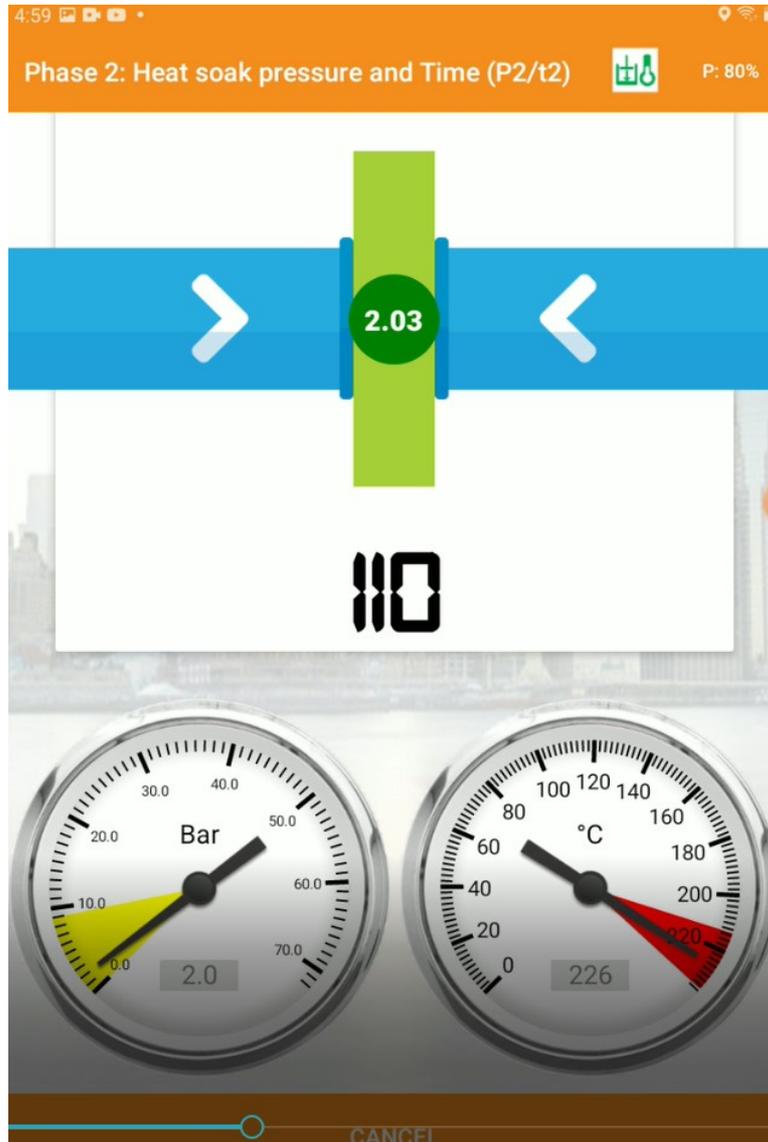
Most importantly the user must set pressure for Phase 1 and Phase 5 at this point.

Phase 1: Bead up



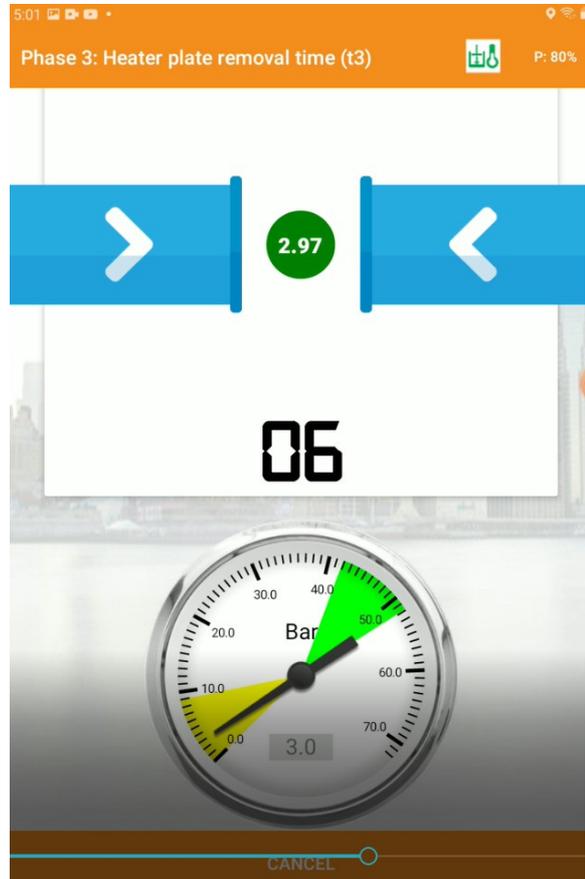
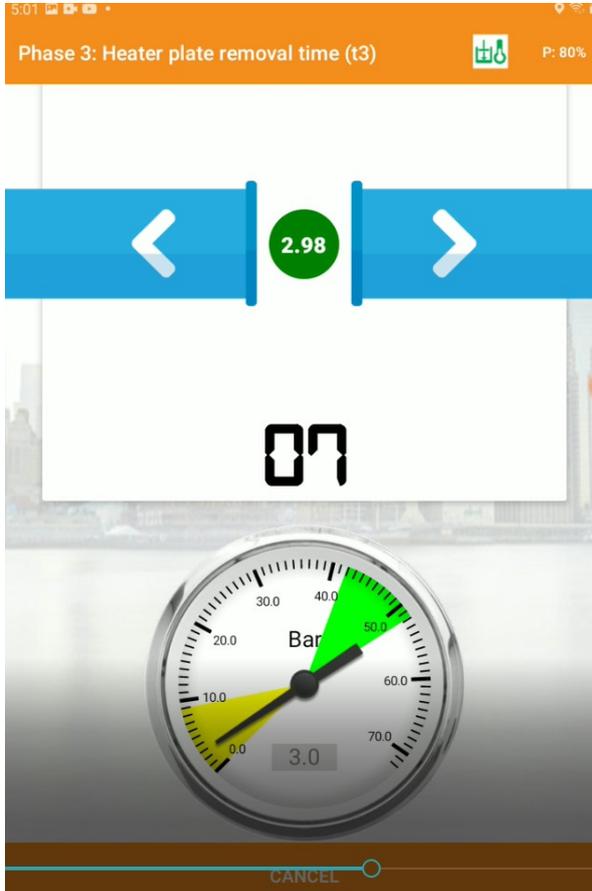
Phase 1 screen instructs the user what to do and when to reduce pressure to Drag. Temperature can also be monitored during this Phase

Phase 2: Heat Soak



After bead up as soon as user drops to Drag pressure or below the Heat soak timer begins count down (the pressure is recorded during this phase)

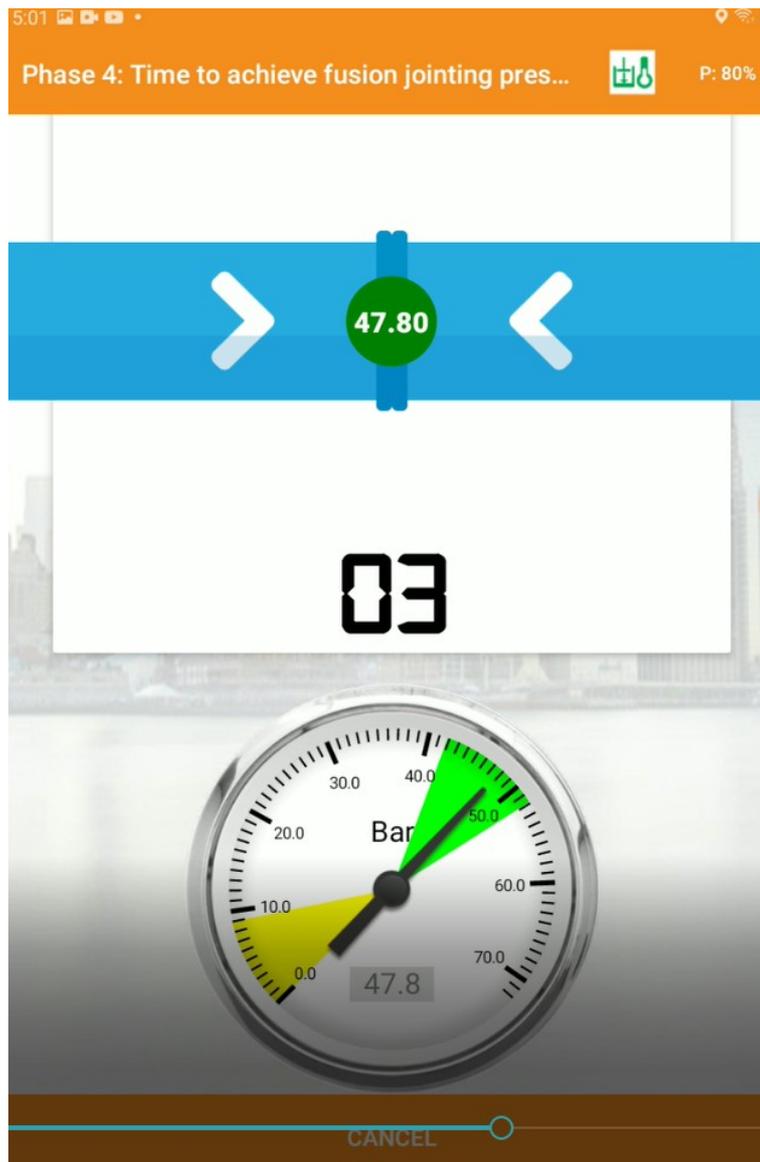
Phase: 3. Heater Plate Removal



User is notified by a alarm to remove heater plate and bring ends back together within displayed time

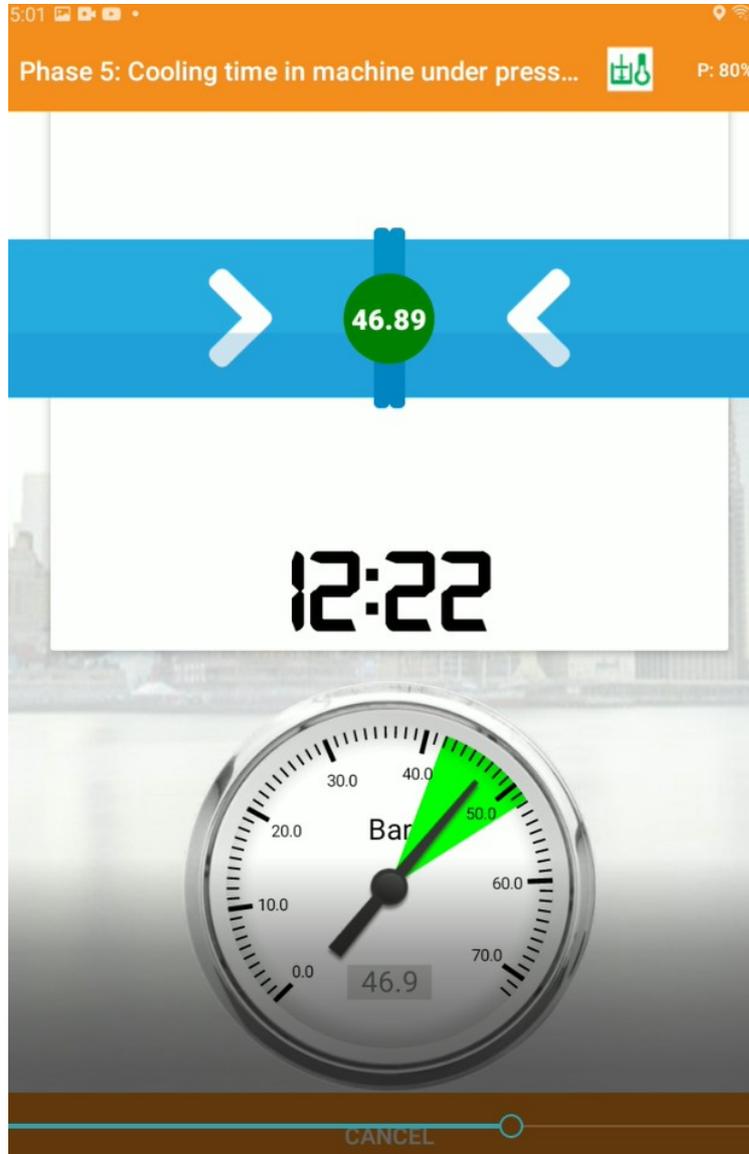
Phase 4: Pressure up

(for high Pressure welding this Phase is incorporated within Phase 3)



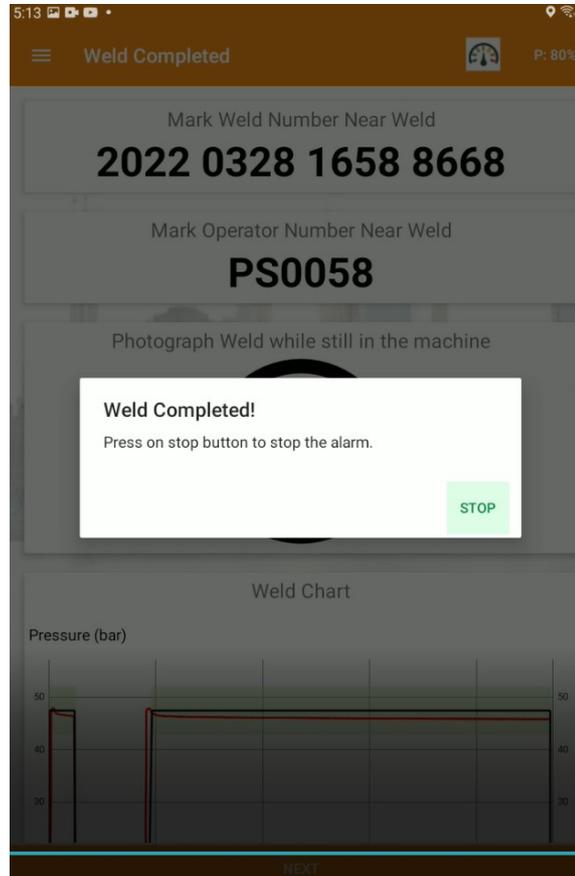
User is notified by a alarm to bring ends back up to weld pressure within displayed time.

Phase 5 Cooling time in Machine under Pressure



Timer automatically starts for cooling time

Weld Completed



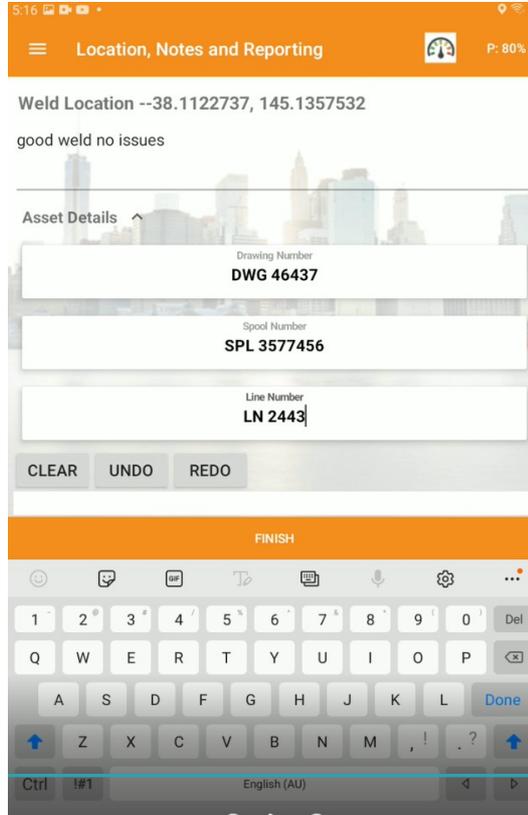
Once weld is completed the user is prompted to mark the unique weld number and welder id onto the pipe next to the weld
The unique number is made up from the following information.

| Year | | | | Month | | Day | | Hour | | Minute | | Part of user ID | | FMS created from project | |
|------|---|---|---|-------|---|-----|---|------|---|--------|---|-----------------|---|--------------------------|---|
| 2 | 0 | 2 | 2 | 0 | 3 | 2 | 8 | 1 | 3 | 3 | 7 | 8 | 6 | 6 | 8 |

The user is prompted to take a photo including the unique ID number of completed weld while still in machine.

The graph gives the user the opportunity to review the weld before progressing.

Location, Notes and Reporting



The GPS is automatically recorded and displayed in this screen

The User can also enter comments

And further Asset details including :

Drawing Number

Spool Number

Line number

There is an area here to include a ;

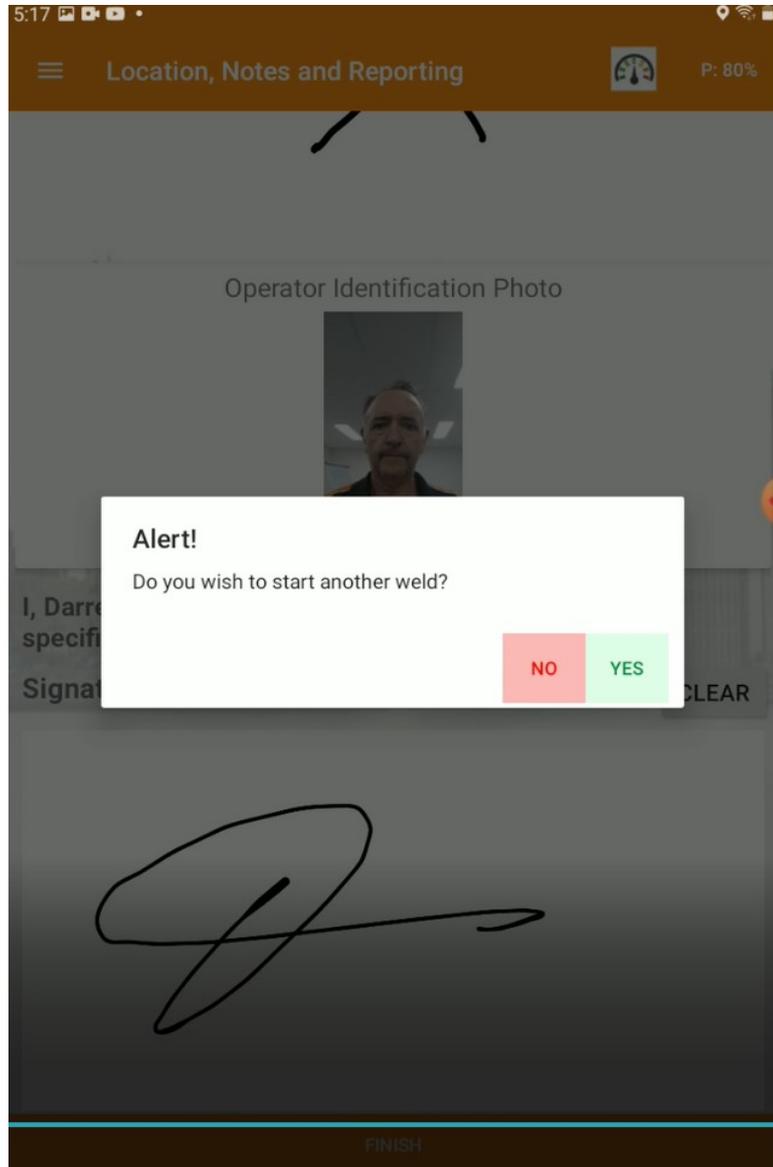
Sketch

Operator Identification Photo

Operator Signature

The information here is not compulsory except for the signature.

Do you wish to start another weld



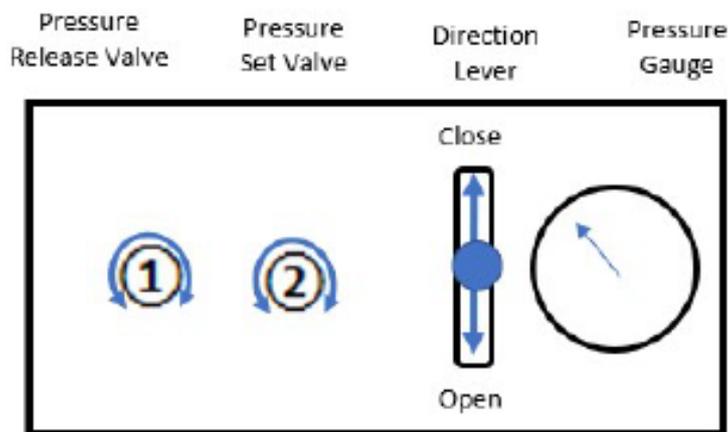
At this point the user can choose to finish the session or continue to another weld, if they choose to continue they are taken back to the check list screen and all other data parameters are still set to the same as previous weld.
If the user chooses No the system returns to the Home screen



Basic Welding Machine Operating Procedure

www.PEWeldBank.com
Info@PEWeldBank.com

Hydraulic Valve Control Sequence when using PEWeldBank (On demand flow)



Generic Pressure control unit. Most basic units run similarly but valves may be arranged differently.

After Facing, cleaning, alignment and Recording Drag pressure

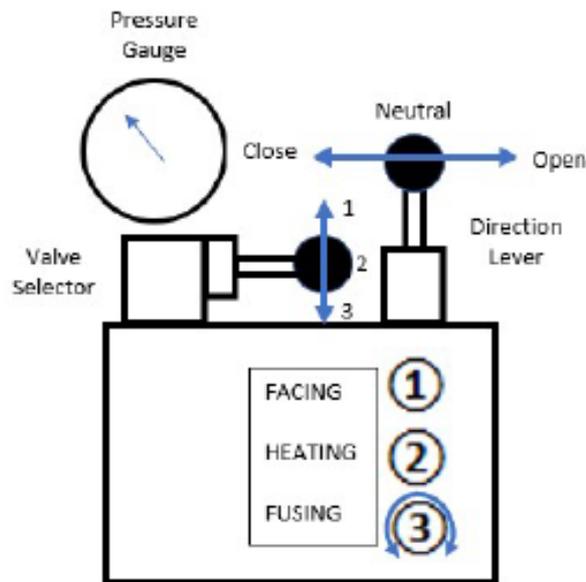
1. Close Pressure Release Valve ①
2. Close carriage and set Pressure Set Valve ② to XX bar
3. Press **[NEXT]** on PEWeldBank.
4. Open carriage this will drop pressure to drag or less.
5. Insert Heater Plate.
6. Bring Pipe up to heater plate to XX bar pressure and hold Direction Lever for several seconds.
7. When you have bead up size
8. Reduce to 0-Drag Using Pressure Release Valve ①
And Wait for Heat Soak Time.
8. Open Carriage: Just enough to remove heater plate.
9. Remove Heater Plate and Close carriage, hold Direction Lever for several seconds.

(Continual flow:- Hydraulic pump runs continually,

On demand flow :- Hydraulic pump only runs when lever activated)

Info@PEWeldBank.com

Valve Control Sequence when using PEWeldBank (Continual flow)



After Facing, cleaning, alignment and setting Heating / Drag pressure.

1. Close carriage and set Fusing pressure valve (3) to XX bar
2. Press **[NEXT]** on PEWeldBank
3. Open carriage **ALL THE WAY** this will drop pressure to drag or less.
4. Insert Heater Plate
5. Bring Pipe up to heater plate to XX bar pressure
6. When you have bead up size
7. Reduce to 0-Drag

To do this correctly you must move "Valve Selector" to 2 position and wait for pressure to drop to below drag, then move "Direction Lever" to neutral. And Wait for Heat Soak Time

8. Open Carriage; move "Valve Selector" down to Fusion Position 3, move "Direction Lever" to the right, just enough to remove heater plate.
9. Remove Heater Plate and Close carriage.
10. To avoid pressure spike, slow carriage speed just before closure.

(Continual flow:- Hydraulic pump runs continually,

On demand flow :- Hydraulic pump only runs when lever activated)

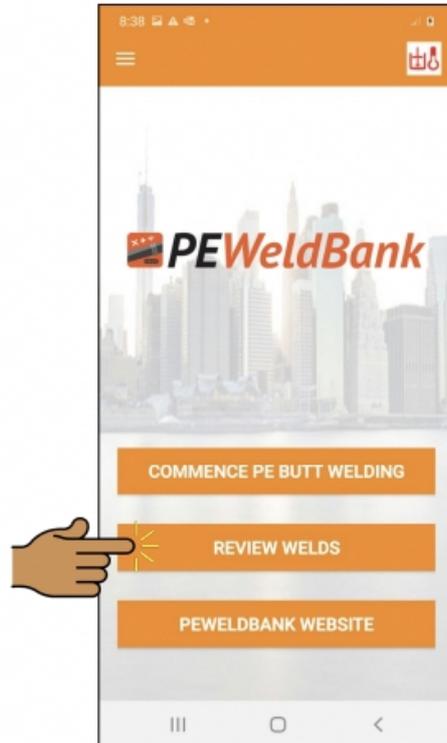


Review welds and add second GPS location

www.PEWeldBank.com
Info@PEWeldBank.com

How to Review Welds on Smartphone or Tablet

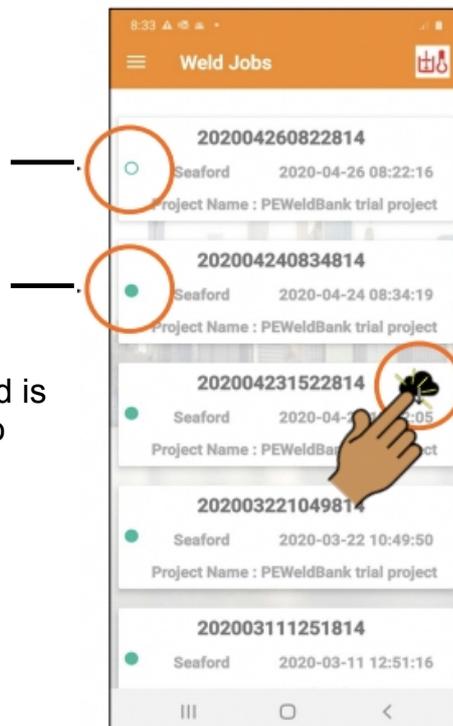
Go to the **HOME SCREEN**
Click on **REVIEW WELDS**



Empty green circle indicates that weld has been recorded on Tablet / Phone, but is waiting to be uploaded to FMS

Full green circle indicates that the weld is recorded on Tablet / Phone *and* FMS

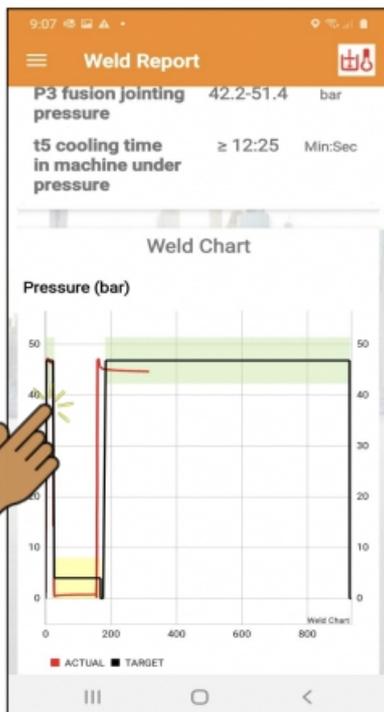
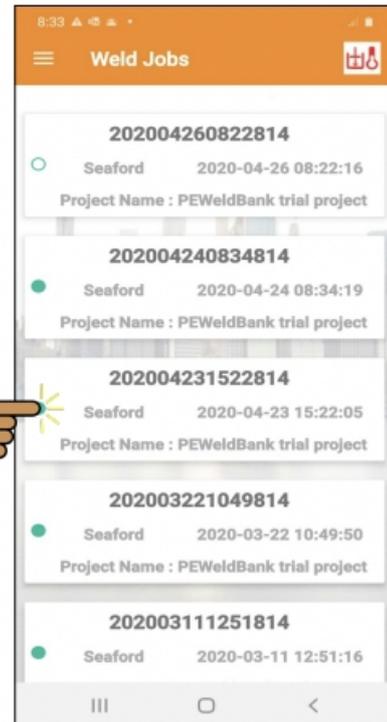
If you see a cloud icon this means this weld is only on the FMS but can be downloaded to the Tablet / Phone by clicking on icon 



How to Review Welds - Insert 2nd GPS Location

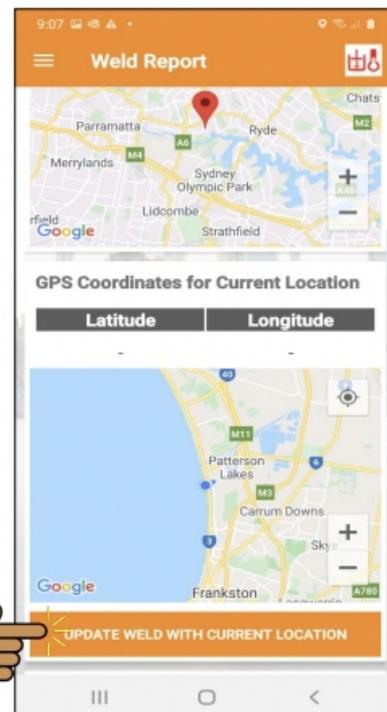
A valuable feature of **PEWeldBank** is the ability to add a 2nd GPS location. This is particularly useful where the installation location is different to where the welding was undertaken.

From the Review Welds screen (see previous page), select a weld you want to review or add the second GPS location.



The on-screen Report shows all information about this weld

Zoom into graph to see finer detail



Scroll down further to find the GPS location.

Click here to update weld location, this does not change original information it simply adds a second GPS location for this weld which will be available on reports.



Trouble shooting

www.PEWeldBank.com
Info@PEWeldBank.com

Troubleshooting

| Pressure Sensor | | |
|--|---|---|
| Problem | Reason | Solution |
| No fast flashing blue status light on sensor | Sensor connected to wrong side of hydraulics | Make sure it is connected to closing side of hydraulics (this is generally the cylinder inlet closest to middle of machine see photo) |
| | Sensor not connected to hydraulic with | Connect transducer cable to transducer and sensor and increase pressure, fast flashing should start within 10 seconds |
| | Orange transducer connected to wrong port on sensor | Connect transducer cable to Port "1" on sensor |
| | Battery low or flat on sensor | Charge sensor until Charging light shines green |
| | | Check operation of sensor by momentarily removing and replacing battery, Blue Status light should flash fast |
| Zero pressure reading on smartphone | | Check above information |
| I have fast flashing blue light but wont connect to smartphone | Bluetooth turned off in smartphone | Turn Bluetooth to on in smartphone |
| | | Smartphone must be connected to internet for initial pairing |
| | Camera disabled | Allow camera settings in smartphone |
| | | Try connecting to nearest sensor rather than scanning qr code |
| | Not paired | Check in PEWeldBank on smartphone settings > sensors, your sensor should be listed here (check that the number matches number on sensor) delete any sensor not currently required |
| | Battery low or flat on sensor | Charge sensor until Charging light shines green |
| | Battery low or flat on smartphone | Charge smartphone |
| | Sensor not connected to | Check above information |
| Zero pressure reading on smartphone | | Check above information |
| Pressure reading on Machine Gauge is different to smartphone | Machine Gauge is probably incorrect | All PEWeldBank transducers are highly accurate and calibrated when packed, if concerned have your gauge tested. |

Troubleshooting

| Temperature Sensor | | |
|---|--|---|
| Problem | Reason | Solution |
| No fast flashing blue status light on sensor | Surface Probe not in contact with Hot heater plate | Hold Surface Probe against Hot heater plate for at least 10 seconds this will activate sensor |
| | Battery low or flat on sensor | Charge sensor until Charging light shines green |
| | Surface Probe not connected to correct port on sensor | Connect Surface probe to "Fixed" port on sensor |
| | | Check operation of sensor by temporarily removing and replacing battery, Blue Status light should flash fast |
| I have fast flashing blue light but wont connect to smartphone | Bluetooth turned off in smartphone | Turn Bluetooth to on in smartphone |
| | | Smartphone must be connected to internet for initial pairing |
| | Camera disabled | Allow camera settings in smartphone |
| | | Try connecting to nearest sensor rather than scanning qr code |
| | Not paired | Check in PEWeldBank on smartphone settings > sensors, your sensor should be listed here (check that the number matches number on sensor) delete any sensor not currently required |
| | Battery low or flat on sensor | Charge sensor until Charging light shines green |
| | Battery low or flat on smartphone | Charge smartphone |
| Temperature reading on heater plate controller is different to smartphone | Surface probe must be held against heater plate | Hold Surface Probe against Hot heater plate for at least 10 seconds this will activate sensor |
| | Temperature reading is possibly incorrect or reading core temperature, not surface temperature | All PEWeldBank surface probes are accurate and calibrated when packed, if concerned have your heater plate independently tested. |

Calibration Details

In accordance with
ASTM F3124-15. Standard Practice for
Data Recording the Procedure used to Produce Heat Butt Fusion Joints in
Plastic Piping Systems or Fittings.

GOPOLY Pty Ltd (the manufacturer of the PEWeldBank sensor set) recommends bi-annual calibration. However, local governance may have different requirements, so we suggest that you check with the relevant authorities in your area.

Pressure Transducers come with a 5-year performance guarantee from the instrument manufacturer, the Pressure Transducers can be tested / compared against qualified instruments.

Surface Temperature Probes come with a 2-year performance guarantee from the instrument manufacturer. The Surface Temperature Probes can be tested / compared against qualified instruments.

Independent Laboratory Testing / Calibration may be requested in some cases. If so, we recommend that you contact your local PE Weld Bank reseller or a local testing / calibration laboratory to calibrate Pressure Sensor / Transducer and Temperature Sensor / Surface Temperature Probe, or return to GOPOLY for this service.



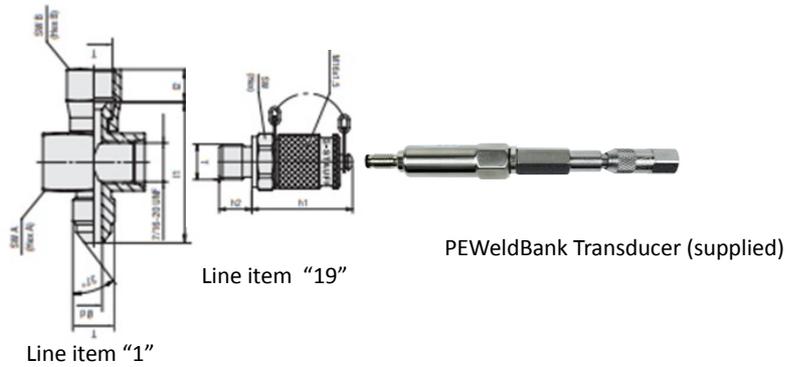
Appendix 1

Connection of Hydraulic test point

www.PEWeldBank.com
Info@PEWeldBank.com

Appendix 1a Ritmo Basic with steel case

N.B. first ensure that the power is disconnected & there is no pressure in system.
 Remove hydraulic hose from control box (Closing pressure side)
 Fit "Stauff Swivel run tee"
 Fit hydraulic hose to "Stauff Swivel run tee"
 Fit "Stauff Test point"
 Fit PEWeldBank Transducer to Stauff test point 20.



Appendix 1b Ritmo Basic with Plastic case

N.B. first ensure that the power is disconnected & there is no pressure in system.

You will need to remove top cover from control box.

Remove hydraulic hose from control box

Fit item "1"

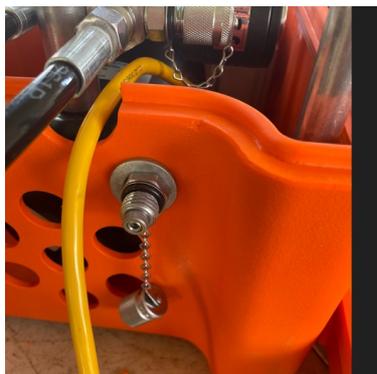
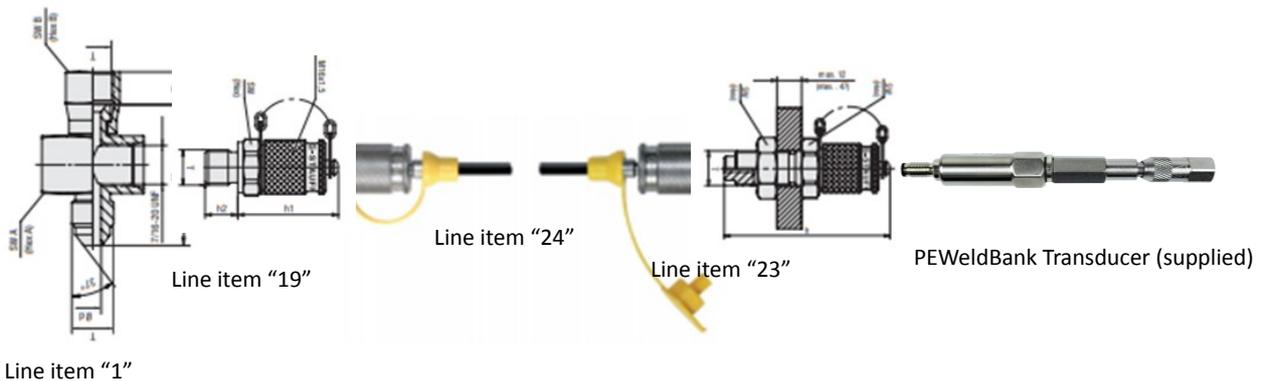
Fit hydraulic hose to item "1"

Fit item "19 to 1"

Drill hole into plastic case and fit item "23"

Connect Line item 24 to item 19 and Line item "23"

Fit PEWeldBank Transducer to item "23"

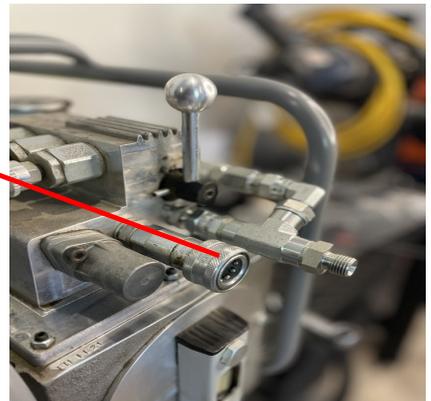


Appendix 1c Dixon EHF 225 & 350

N.B. first ensure that the power is disconnected & there is no pressure in system.
Remove male quick connect fitting and washer leaving the hex nipple in the block
(Hava a rag handy as there may be an amount of hydraulic oils leakage)
Fit assembly

Refit washer and quick male connect fitting

Fit PEWeldBank Transducer

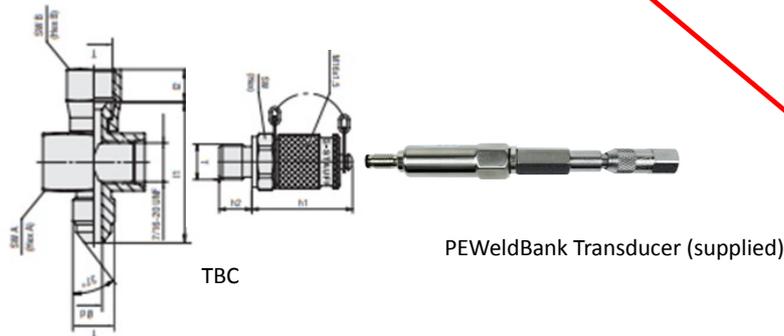


Assembly available from PE
Weld Bank reseller

Info@PEWeldBank.com

Appendix 1d +GF+ TM Series

N.B. first ensure that there is no pressure in system.
 Remove male quick connect hydraulic coupling from control box
 Fit TBC
 Re-Fit male coupling to "TBC"
 Fit "TBC"
 Fit PEWeldBank Transducer to TBC



TBC



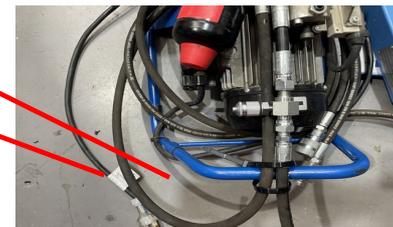
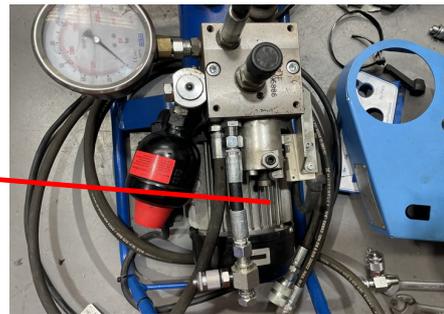
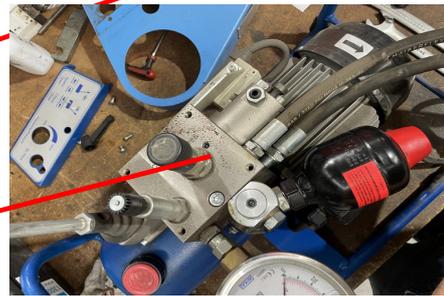
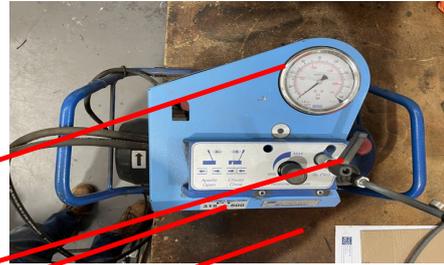
Appendix 1e Technodue PT 160-500

N.B. first ensure that the power is disconnected & there is no pressure in system.

Remove lever from valve
Remove top cover plate
Remove lower cover plate

Remove hydraulic hose from port "A"
(Have a rag handy as a little oil may escape.)
Fit assembly into Port "A"

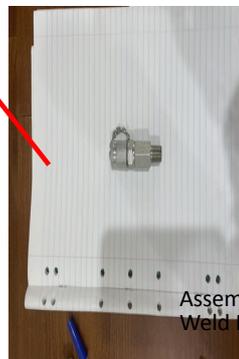
Replace hydraulic hose to Assembly
Fit a cable tie to frame
Replace lower cover plate
Replace top cover plate
Replace lever to valve



Assembly available from PE
Weld Bank reseller

Appendix 1f Dixon EHF 450 & 630

N.B. first ensure that the power is disconnected there is no pressure in system.
Remove 1/4" plug
(have a rag handy as there may be an amount of hydraulic oil leakage)
Fit Test point 20 assembly with 1/4" male tapered fitting, Use Teflon or hydraulic thread sealant.



Assembly available from PE Weld Bank reseller

Test 20 with 1/4" BSPT adaptor

Appendix 1g Worldpoly WHD Control box

N.B. first ensure that the power is disconnected there is no pressure in system.

Remove 1/4" plug or transducer
(have a rag handy as there may be an amount of hydraulic oil leakage)
Fit Test point 20 assembly with 1/4" male tapered fitting,. Use Teflon or hydraulic thread sealant.



Assembly available from PE Weld Bank reseller

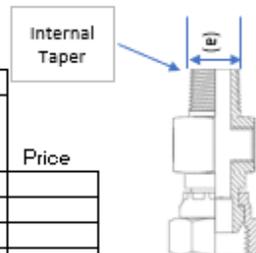
Test 20 with 1/4" BSPT adaptor
(Item # Test Point 002)

Please contact your local hydraulics company or PEWeldBank reseller for fittings.

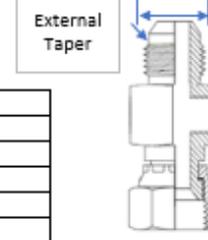
The following is a guide, we will add to this as more information becomes available.

Hydraulic Test Port Tee Identification

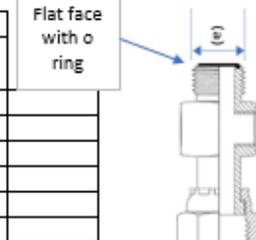
| "BSPT" Male x BSPP Female Swivel BSPP Test Port Tee | | | | |
|---|------------------|----------------------------|-----------|-------|
| Line No | Part Number | Description | OD mm (a) | Price |
| 1 | BTM-BSF-BPF-0404 | 1/4 BSPT M/F Test 1/8 BSPP | 13.03± | |
| 2 | BTM-BSF-BPF-0606 | 3/8 BSPT M/F Test 1/8 BSPP | 16.50± | |
| 3 | BTM-BSF-BPF-0808 | 1/2 BSPT M/F Test 1/8 BSPP | 20.59± | |
| 4 | BTM-BSF-BPF-1212 | 3/4 BSPT M/F Test 1/8 BSPP | | |
| 5 | BTM-BSF-BPF-1616 | 1 BSPT M/F Test 1/8 BSPP | | |



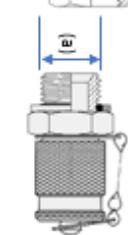
| "JIC" Male x JIC Female Swivel BSPP Test Port Tee | | | | |
|---|--------------------|------------------------------|-----------|-------|
| Line No | Part Number | Description | OD mm (a) | Price |
| 6 | JIM-JIF-BPF-070702 | 7/16 JIC M/F Test 1/8 BSPP | 10.97± | |
| 7 | JIM-JIF-BPF-090902 | 9/16 JIC M/F Test 1/8 BSPP | 14.13± | |
| 8 | JIM-JIF-BPF-121202 | 3/4 JIC M/F Test 1/8 BSPP | | |
| 9 | JIM-JIF-BPF-141402 | 7/8 JIC M/F Test 1/8 BSPP | | |
| 10 | JIM-JIF-BPF-171702 | 1-1/16 JIC M/F Test 1/8 BSPP | | |
| 11 | JIM-JIF-BPF-212102 | 1-5/16 JIC M/F Test 1/8 BSPP | | |



| ORFS Male x JIC Female Swivel BSPP Test Port Tee | | | | |
|--|------------------|-----------------------------|-----------|-------|
| Line No | Part Number | Description | OD mm (a) | Price |
| 13 | ORM-ORF-BPF-0909 | 9/16 ORFS M/F Test 1/8 BSPP | | |
| 14 | | | | |
| 15 | G-M0914 | NIPPLE 9/16 JIC X 14 METRIC | | |
| 16 | A-J-0609 | ADAPTOR BSPT X 9/16 JIC M/F | | |
| 17 | | | | |
| 18 | | | | |



| BSPP Male x Test 20 Male | | | | |
|--------------------------|---------------|--------------------------|-----------|-------|
| Line No | Part Number | Description | OD mm (a) | Price |
| 19 | BPM-TEST-0220 | ** 1/8 BSPPM x TEST 20 M | 9.60± | |
| 20 | BPM-TEST-0420 | 1/4 BSPPM x TEST 20 M | 10.90± | |
| 21 | BPM-TEST-0620 | 3/8 BSPPM x TEST 20 M | 13.05± | |
| 22 | BPM-TEST-0820 | 1/2 BSPPM x TEST 20 M | | |



** Suits above Test Port Tees

| Test 20 Bulk Head Coupling & hose | | | |
|-----------------------------------|----------------------|----------------------------|-------|
| Line No | Part Number | Description | Price |
| 23 | 432-5612 | Test 20 Bulk Head Coupling | |
| 24 | Test 20 hose x 400mm | Test 20 hose x 400mm | |



| Misc | | | |
|---------|------------------|--------------------------------|-------|
| Line No | Part Number | Description | Price |
| 25 | BTM-BTM-0404 | 1/4" BSPTM x 1/4" BSPTM Nipple | |
| 26 | BTF-BTF-BTF-0404 | 1/4" BSPT Female Tee* TPT | |

*branch tapped 1/4" Parallel

Please contact your local hydraulics company or PEWeldBank reseller for fittings.

The following is a guide, we will add to this as more information becomes available.

| | | Price | | |
|----|---------------------|---------------------------|--|--|
| 1 | Ritmo Basic 160-315 | BTM-BSF-BPF-040402 | | Remove hose from pressure side of block and install these fittings |
| 19 | in steel case | BPM-TEST-0220 | | |
| 1 | Ritmo Basic 160-315 | BTM-BSF-BPF-040402 | | Remove top from case install tee between hose and block, drill hole in case install 432-5612 fitting then connect with supplied hose |
| 19 | in Plastic case | BPM-TEST-0220 | | |
| 23 | | 432-5612 | | |
| 24 | | Test 20 hose x 400mm | | |
| 1 | Omisa Whiteline | BTM-BSF-BPF-040402 | | Remove hose from pressure side of block and install these fittings |
| 19 | Basic 160-315 in | BPM-TEST-0220 | | |
| 15 | Riyang (OLD) | G-M0914 | | Remove original nipple and Fit these fittings under accumulator and swing down on 45 degrees |
| 16 | Silver machine | A-J-0609 | | |
| 7 | | JIM-JIF-BPF-090902 | | |
| 19 | | BPM-TEST-0220 | | |
| 7 | Worldpoly | JIM-JIF-090902 | | Remove hose that connects to block from gauge and install these fittings |
| 19 | 160-315 WHD160/315 | BPM-TEST-0220 | | |
| 21 | Dixon | BPM-TEST-0420 | | Remove Male Quick connect and install these fittings refit male quick connect |
| 25 | EHF225 & 355 | 1/4" BSPTM x 1/4" BSPTM N | | |
| 26 | | 1/4" BSPT Female Tee TPT | | |

Technodue



Appendix 2

Updating Sensor Firmware

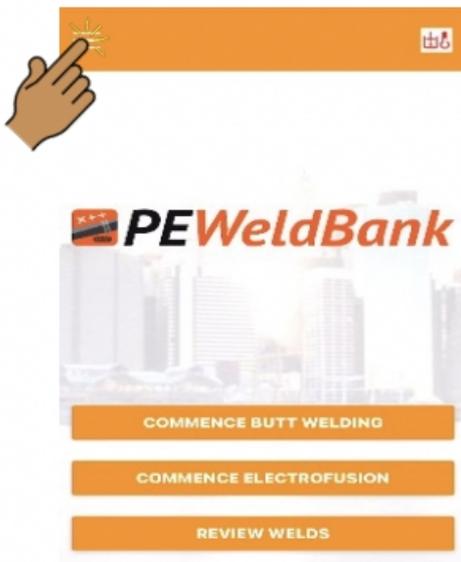
www.PEWeldBank.com
Info@PEWeldBank.com

Updating Sensors Firmware

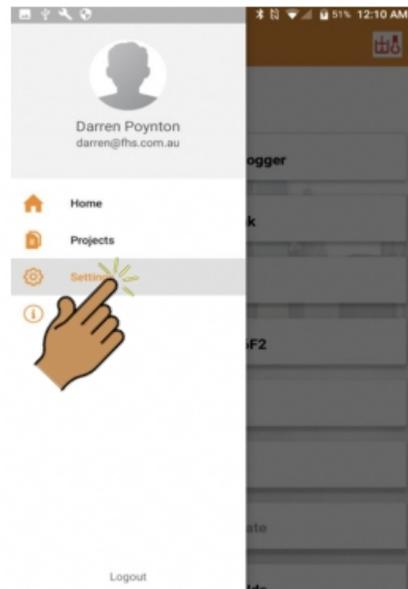
Temperature Sensors V 1.0.9 and Pressure Sensors V 1.3.9 or earlier cannot be updated and must be returned to Flowlogix Pty Ltd for update.

Ensure that Bluetooth is enabled on your smartphone / tablet. Follow the prompts

1. Click **Dropdown Menu**

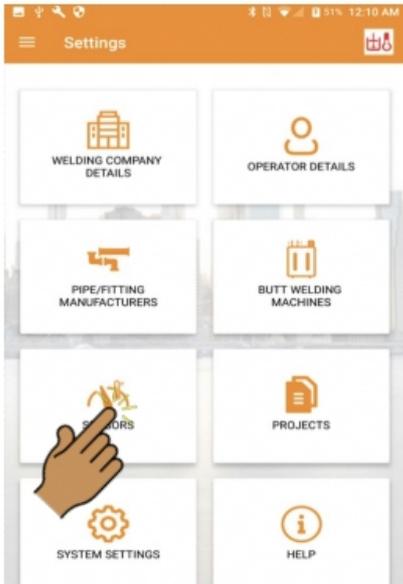


2. Click **Settings**

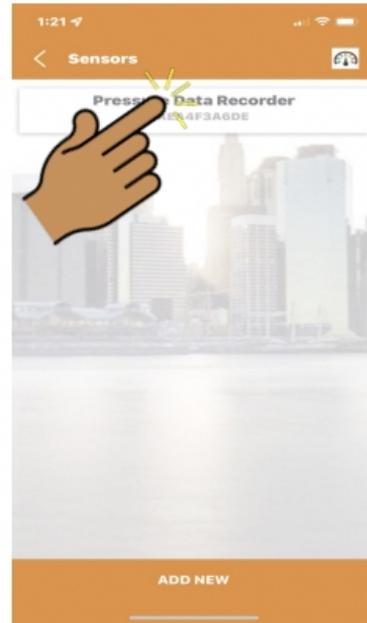


Updating Sensors Firmware

3. Click **Sensors**



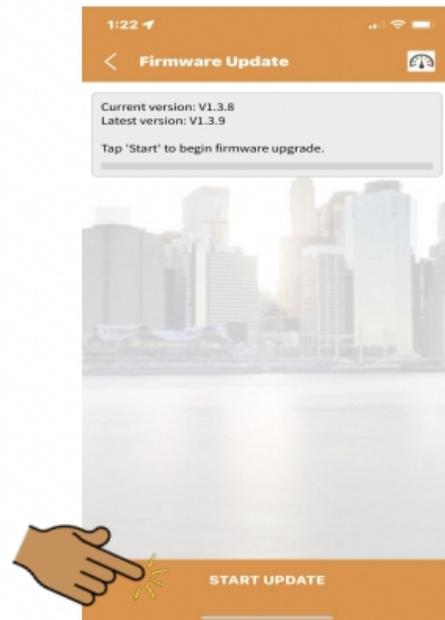
4. Click **sensor**



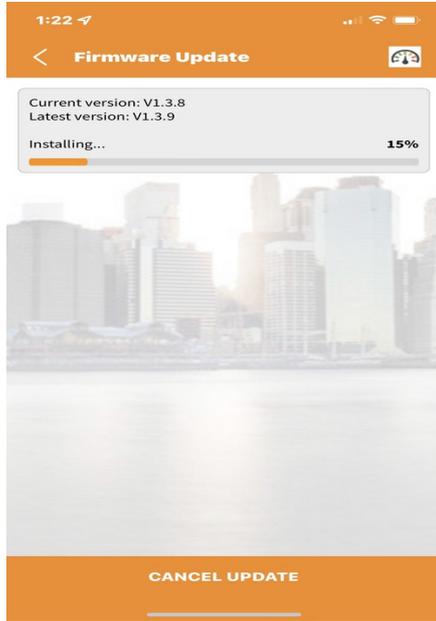
5 Click **Update Firmware**



6 Click **Start Update**

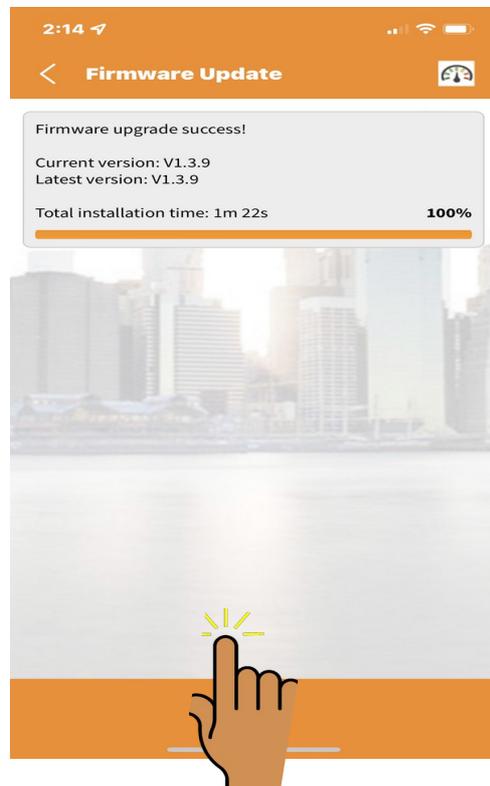
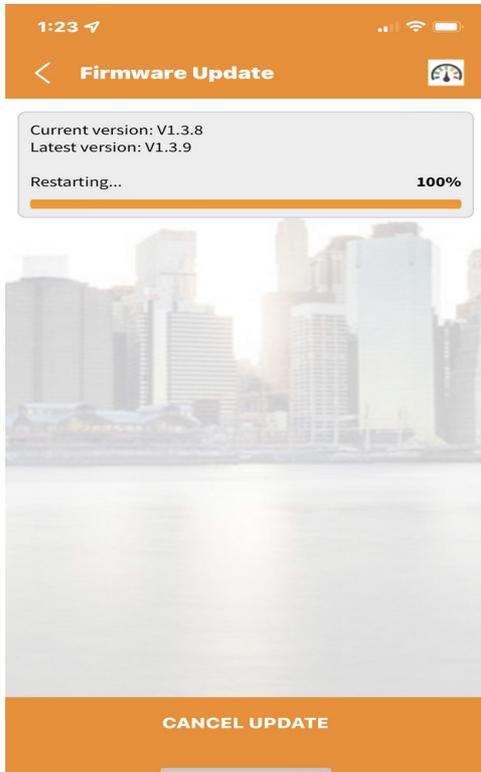


Updating Sensor Firmware



7. Firmware updated

5 Click **Finish**





Appendix 3

Connection to Heater Plate via PT100 internal sensor

www.PEWeldBank.com
Info@PEWeldBank.com



The Sensors dated March 2022 and later allow for connection to the Butt welding machines heater plate internal PT100 probe (where available)

Many machines have provision to plug in a data logger or temperature sensor. i.e. Ritmo, Worldpoly and GF, in most cases this may be used to connect to PE Weld Bank

McElroy and Dixon

Many McElroy and Dixon heater plates have a small temperature gauge inserted into the heater plate this can be removed and a PT100 probe inserted for connection directly to PEWeldBank

Please note:

The sensor probe (PT100) for the “Fixed Point Sensor” is located internally, close to the centre of the heater plate.

It is normal for it to read at a higher temperature than the “Surface Temperature Probe”.

Zone 1 to 4, Front and Back represent Surface Temperature including the Average.

Fixed Point Sensor represents heater plate internal temperature.

| Heater Plate Target (° C) | | 215-235 |
|---------------------------|---------|---------|
| | Front | Back |
| Zone 1 | 226 | 226 |
| Zone 2 | 226 | 228 |
| Zone 3 | 227 | 228 |
| Zone 4 | 226 | 228 |
| Average | 226.81 | |
| Fixed Point Sensor | 240-242 | |

At commencement of weld
Measured during Phase 1 and 2

The PEWeldBank App allows the user to test the surface temperature at the start of “Every Day” or before “Every Weld”

If the user selects “Every Day” the app will ask for acceptance of previous check before allowing the user to continue the weld process.



This 1m long lead is included. One end is to plug into the Fixed sensor port (3.5mm 4 pole) the other end will plug into most Ritmo Basic and Delta model machines (5.5 x 2.1mm DC Barrel plug).



This 1m long lead is included. One end is to plug into the Fixed sensor port (3.5mm 4 pole) the other end has 4 wires allowing fitment of you own plug to suit your machine. (Red = FORCE —, White = RTD —, Green = RTD +, Black = FORCE +. For connection to 2 wire probe join [Red+White] & [Green+Black]

For connection to your machine, plugs can be purchased from your local electronics supplier, these are examples of plugs that are compatible to many Worldpoly and GF machines, you will need to contact your machine supplier for wiring diagrams



GF example



Worldpoly example



This lead is compatible to many Dixon and McElroy machines where you can remove the existing small dial thermometer and replace with this PT100 probe. (these can be made to order)

Appendix 4

User Hierarchy:

| PE Weld Bank User Hierarchy | | | |
|---|-----------------------|----------------|--------|
| | SUPER ADMIN* / WELDER | ADMIN / WELDER | WELDER |
| Person that initially set up system | Yes | No | No |
| Edit Company Details | Yes | No | No |
| Maintain Credit Card Details | Yes | No | No |
| Adding / Deleting / Pairing Sensors | Yes | Yes | Yes |
| Adding / Deleting / Editing: - Users - Projects - Butt Welding Machinery - Electrofusion Machinery - Setting preferences for: - OH&S check list - Heater Plate Temperature Recording - Custom Weld Number | Yes | Yes | No |
| Reviewer: - Approve / Reject Welds | Yes | Yes | No |
| Select: - Projects - Machines - Welding Standards - Conduct Welding | Yes | Yes | Yes |

N.B. App system settings are device based not user based, i.e. if user was to log into a different device the settings may not be correct for this user.

*To change Super admin user the Super admin must send an email to info@peweldbank.com and nominate the new Superadmin user from the user list

Note: If a user's Level is changed they MUST logout and log back into app for changes to take place.

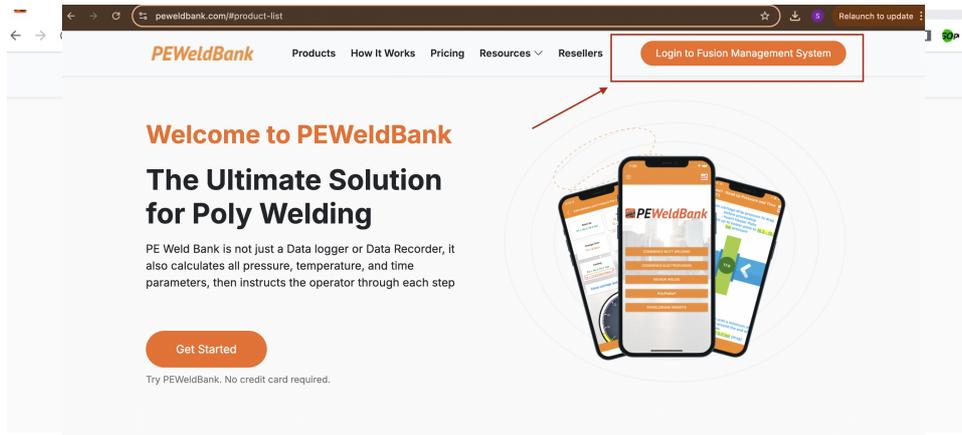


Appendix 5
Unsubscribe or
Resubscribe
PE Weld Bank
FMS

www.PEWeldBank.com
Info@PEWeldBank.com

To unsubscribe from PE Weld Bank FMS

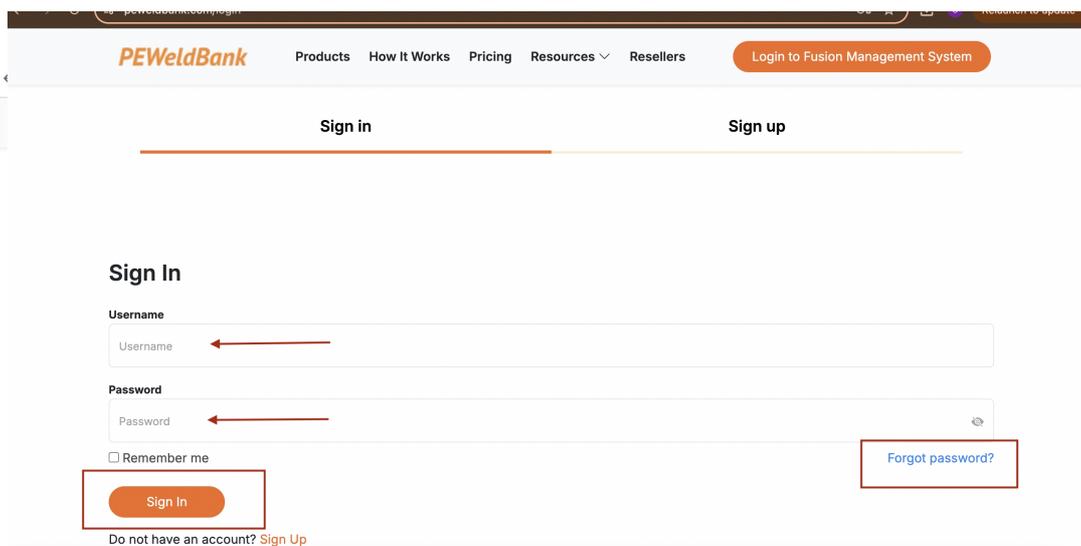
Log onto PEWeldBank .com



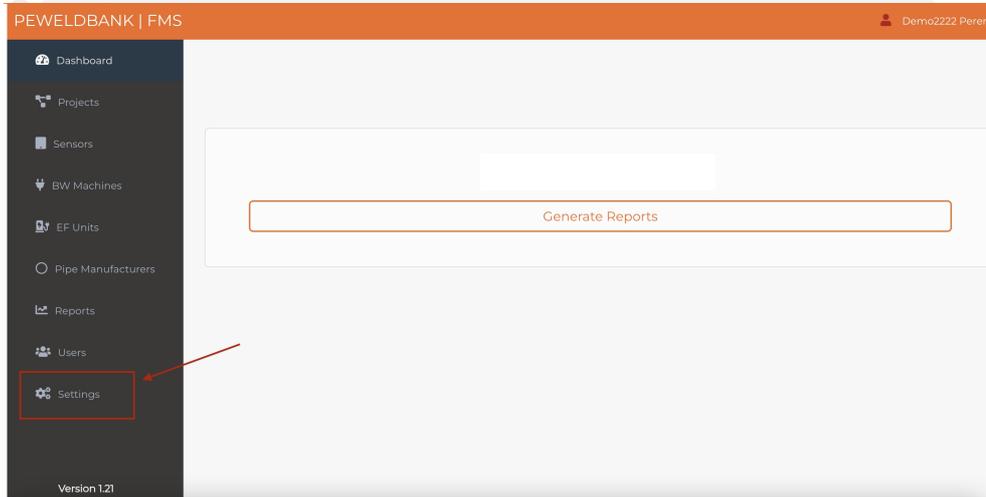
Forgotten your username? send an email to info@peweldbank including your first and last name requesting your username.

Forgotten your password ? Click on forgot password, you will be sent a temporary password to your email address (check spam folder)

When you have this information Sign in



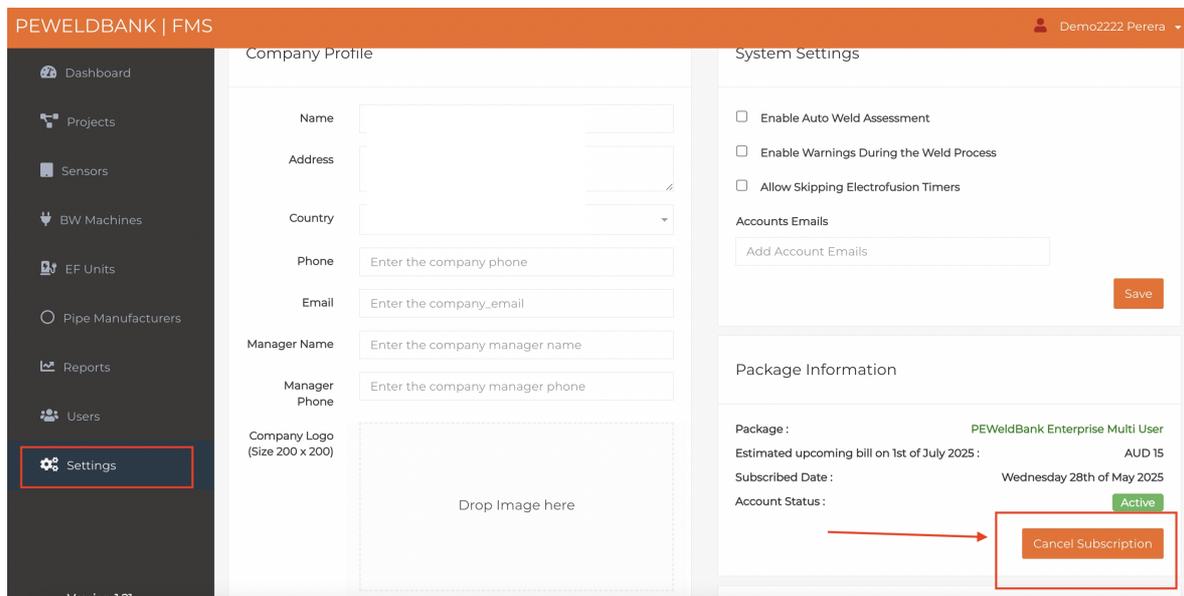
Click on Settings



Click on Cancel Subscription

This will immediately unsubscribe your account.

To renew again simply click on this button again and you will be able to re access your account.





Appendix 6

Re Subscribing or

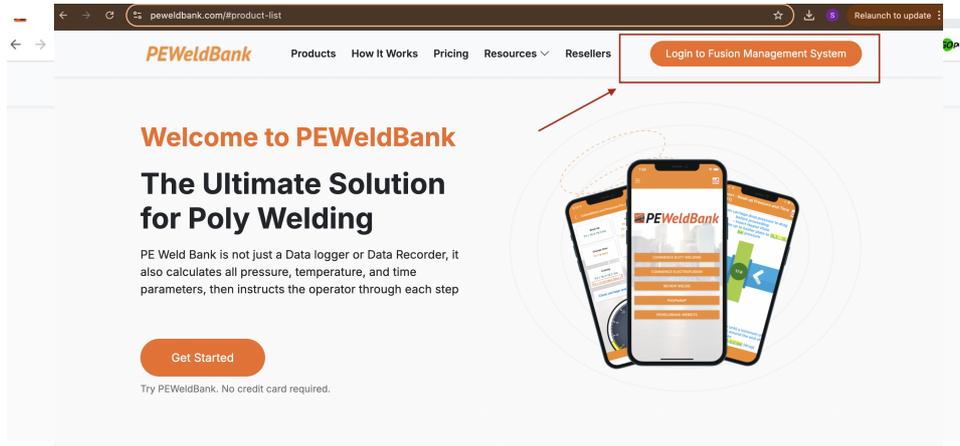
Changing Credit Card

Details

www.PEWeldBank.com
Info@PEWeldBank.com

To Change Credit Card Details in PE Weld Bank FMS

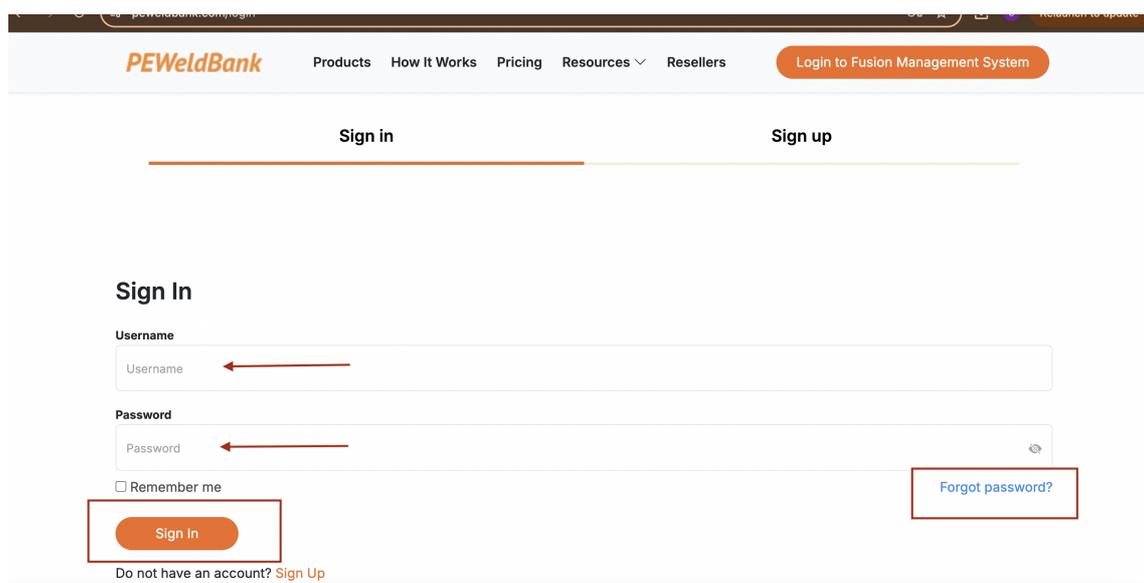
Log onto PEWeldBank.com



Forgotten your username? send an email to info@peweldbank including your first and last name requesting your username.

Forgotten your password ? Click on forgot password, you will be sent a temporary password to your email address (check spam folder)

When you have this information Sign in



Sign in **Sign up**

Sign In

Username

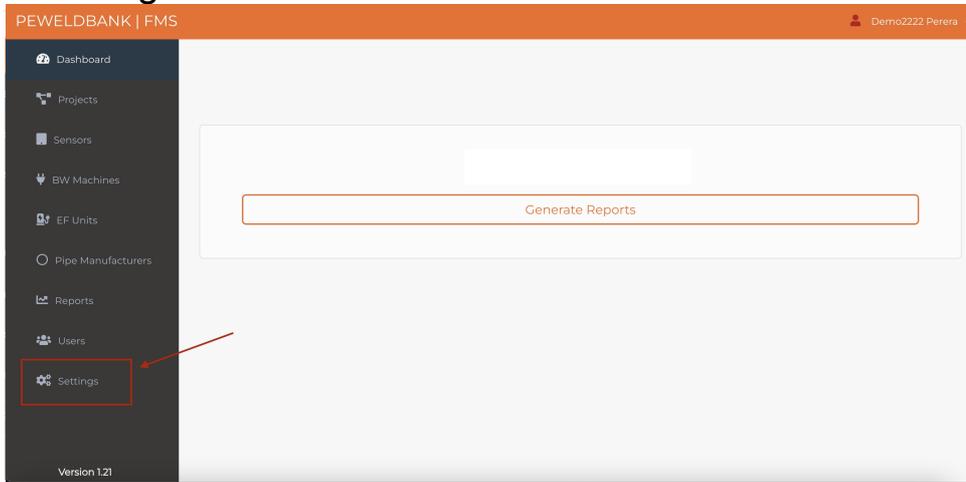
Password

Remember me [Forgot password?](#)

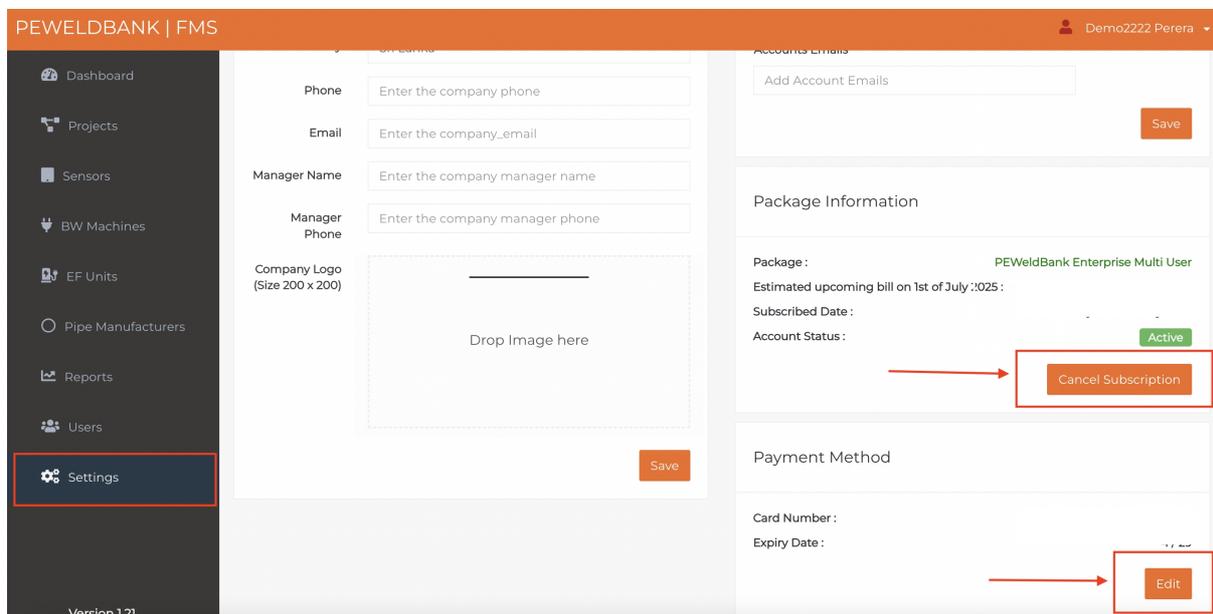
Sign In

Do not have an account? [Sign Up](#)

Click on Settings



Click on Re Subscribe or Edit
Here you will be able to re subscribe or change card details.





Appendix 7

Reviewing welds

www.PEWeldBank.com
Info@PEWeldBank.com

Welds Flagged as “For Review”

PEWeldBank does not reject any welds, it simply asks for the reviewer to carry out further inspection of the weld.

Some welds may not be FMS Accepted due to time, pressure or temperature variations, see examples below.

Please also note where heat soak pressure is dropped to ZERO, PEWeldBank cannot always detect a change in pressure when the heater plate is removed, therefore not allowing accurate timing, in this case it must rely on verification by the reviewer to inspect and decide whether to accept the weld or reject it.

Reviewing welds not FMS approved



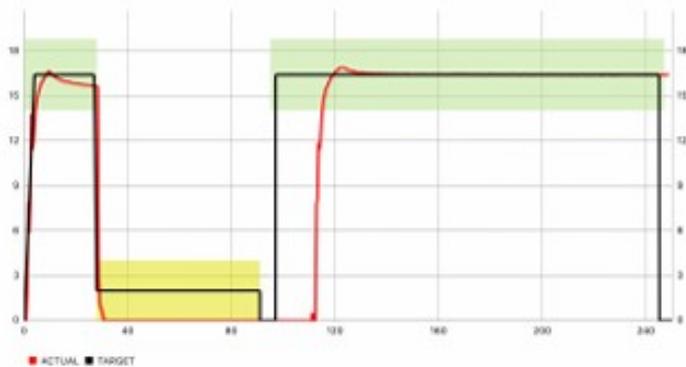
PEWeldBank PEWeldBank Individual Weld Report

| Date | Weld Number | Custom Weld Number | Start Time | Ambient Temp | Status |
|------------|--------------------|--------------------|------------|--------------|------------|
| 03-05-2024 | 202405031154812386 | 1134 | 11:54 | 24.4° C | For Review |

Project Details

| Project Name | Job Number | Project Contact Details |
|--------------|------------|-------------------------|
| [REDACTED] | JB1061 | [REDACTED] |

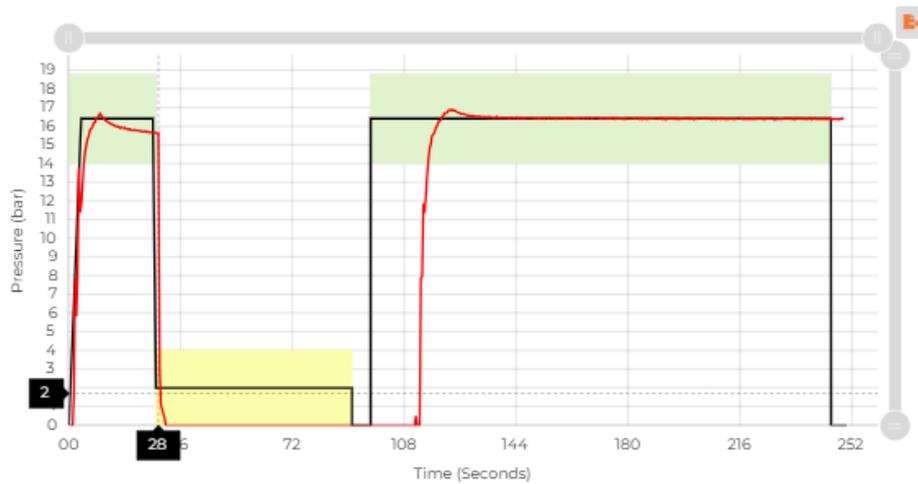
| Weld Details | Required | Actual | |
|---|--------------------------|---------------|--------------|
| P1 bead-up pressure | 14-18.8 | 15-16.7 | bar |
| t1 bead-up size | Until indication of bead | 23.00 | mm / Seconds |
| P2 heat soak pressure | 0.0-4.0 | 0.0-0.7 | bar |
| t2 heat soak time | 57-69 | ~63 | Seconds |
| t3 heater plate removal time | ≤6 | ≤6 | Seconds |
| t4 time to achieve fusion jointing pressure | Not Specified | Not Specified | Seconds |
| P3 fusion jointing pressure | 14-18.8 | 0-16.9 | bar |
| t5 cooling time in machine under pressure | ≥02:28 | 02:28 | Min:Sec |



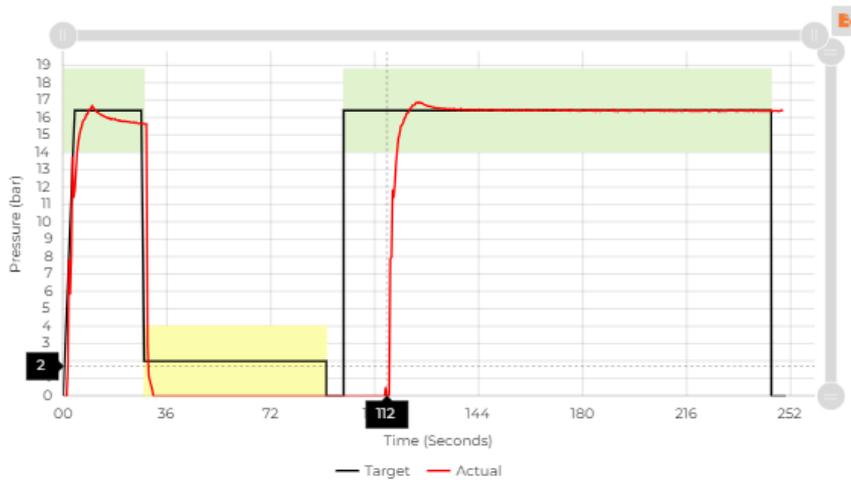
Reviewing welds not FMS approved

Using the weld chart feature, measure the heat soak time by moving your cursor over the start and finish of heat soak. In this example it is 84s, whereas in the weld details it allows up to 69 seconds plus 6s for heater plate removal equals 75s therefore the heat soak was approximately 9s too long (s = seconds)

Weld Chart - 202405031154812386



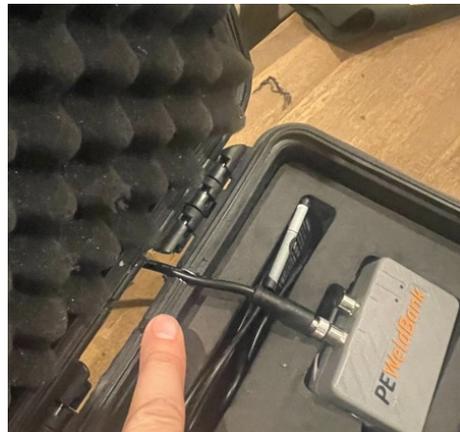
Weld Chart - 202405031154812386



Weather resistant modification

If you are experiencing extreme weather conditions a simple modification may help.

Drill a 5.5mm hole in the sensor set case and leave the sensor inside, this will further protect the unit from dust , snow etc.





For further information:

Please contact PEWeldBank:

Email: info@PEWeldBank.com

Please note that our sales and support office is based in Melbourne Australia, we will respond to all enquiries as soon as possible, however we have a number of resellers worldwide that may be able to assist you. See our website for your nearest reseller.

www.peweldbank.com/reseller