



# **PEWeldBank**

## **User Manual 2023**



Version 9 7 Jan 2023

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**



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**PEWeldBank**

# **Fusion Management System (FMS)**

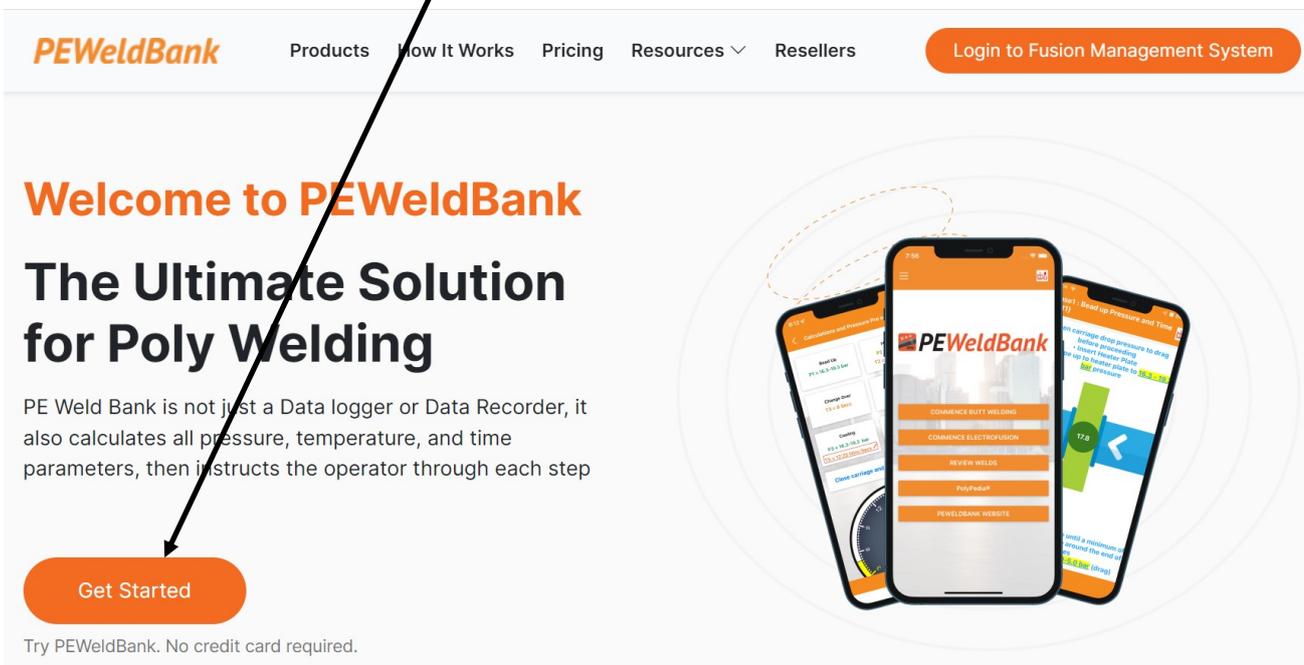
**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

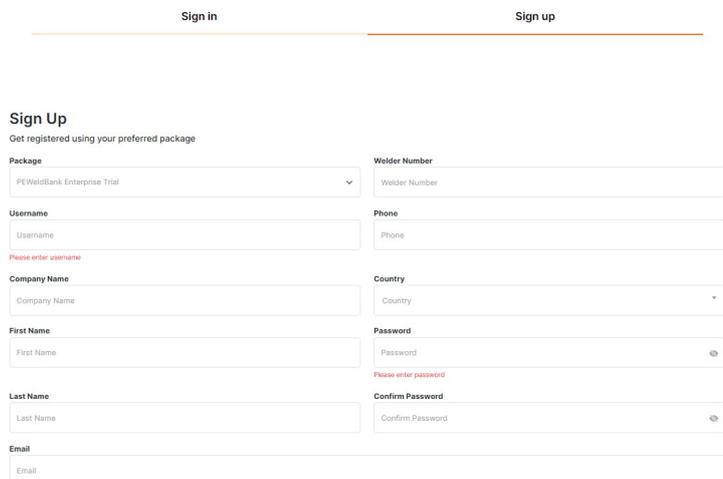
## How to Subscribe to **PEWeldBank** Fusion Management System (FMS) on your PC or Laptop

 You must subscribe to “PEWeldBank Fusion Logger” 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”



## Subscription Rates

Go to [PEWeldBank.com](https://PEWeldBank.com) for the current subscription features, details and prices.

There are 2 different Subscription levels

### “Standard” - Free

This allows the user to calculate Butt Weld Time and Pressure parameters and steps them through the welding process with active timers and alarms, but does not store any weld information.

### “Enterprise” - \$15\* 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.

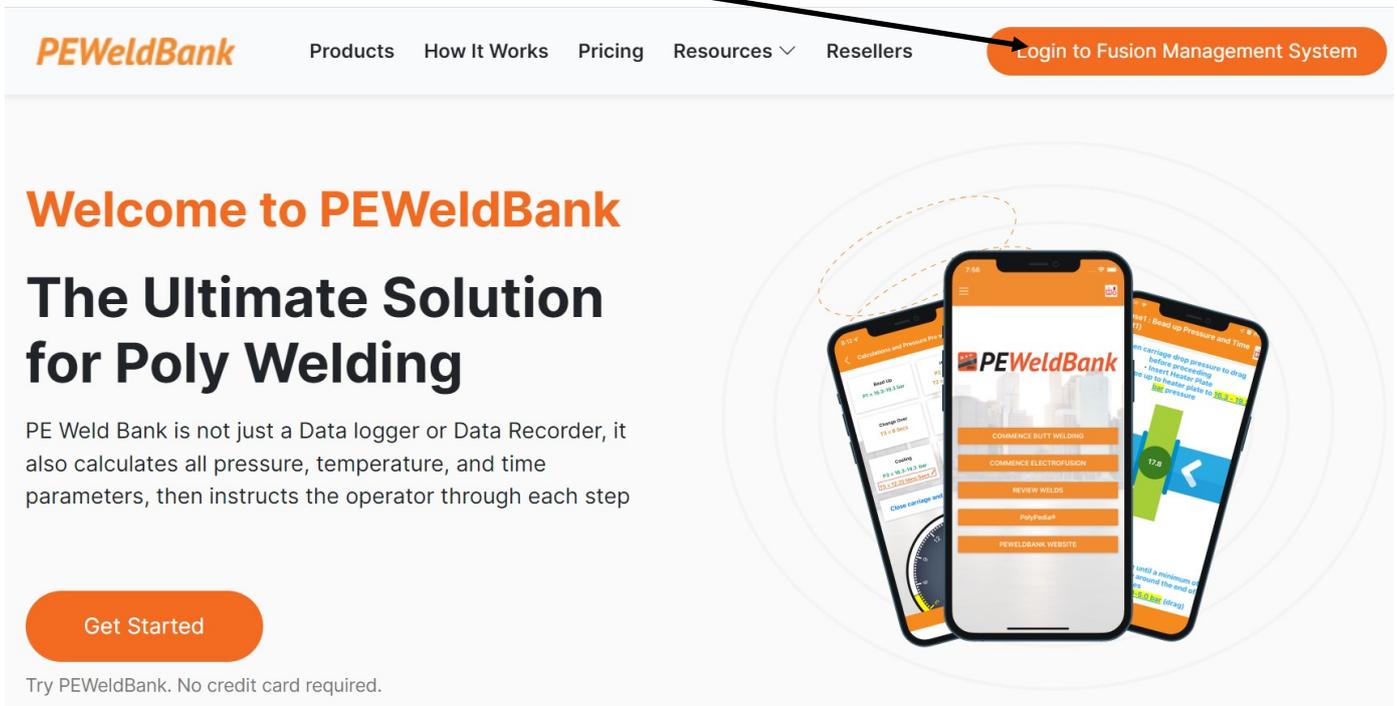
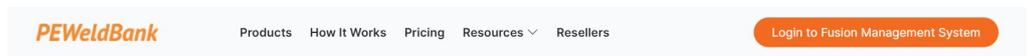
\*Australian Dollars

## How to log on 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”

Sign in

Sign up

### 3. Login:

User ID

Password

Login

Sign In



Username

Password

Remember me

Sign In

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

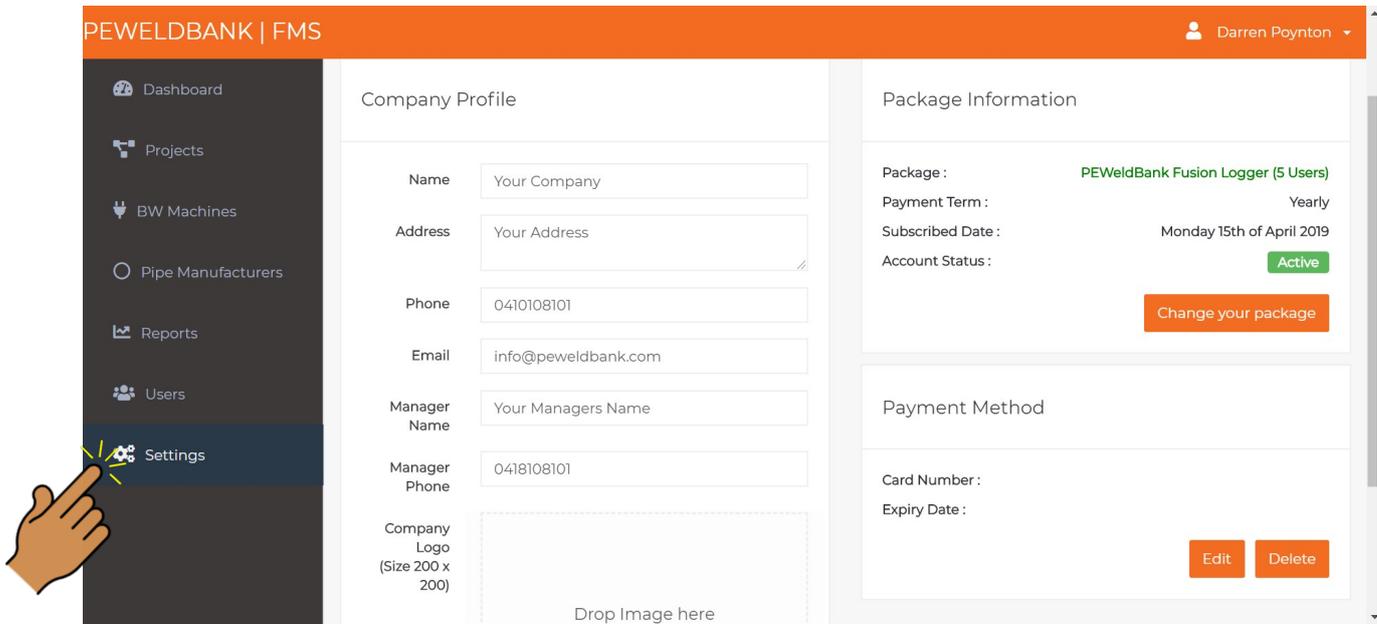
[Forgot password?](#)

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



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**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](#)

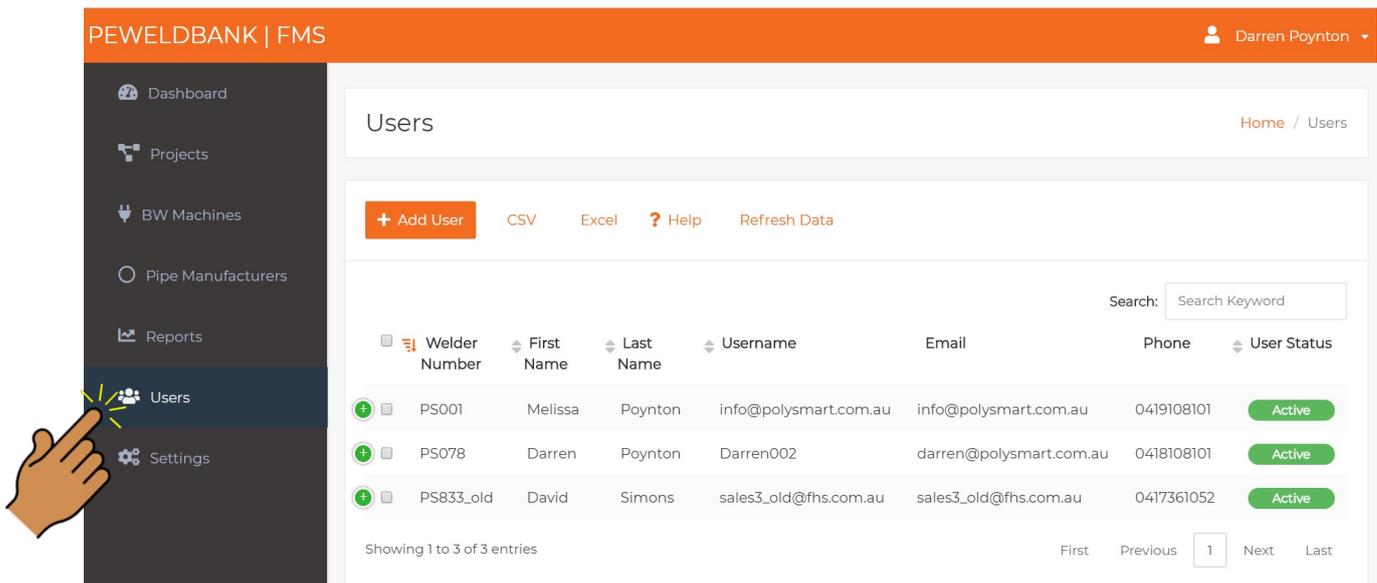
Note there are 3 levels of users access;

- **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](mailto: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

## Set up Users (welder / admin)

Step 2, Click on Users

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



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

### Users

Home / Users

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

Search:

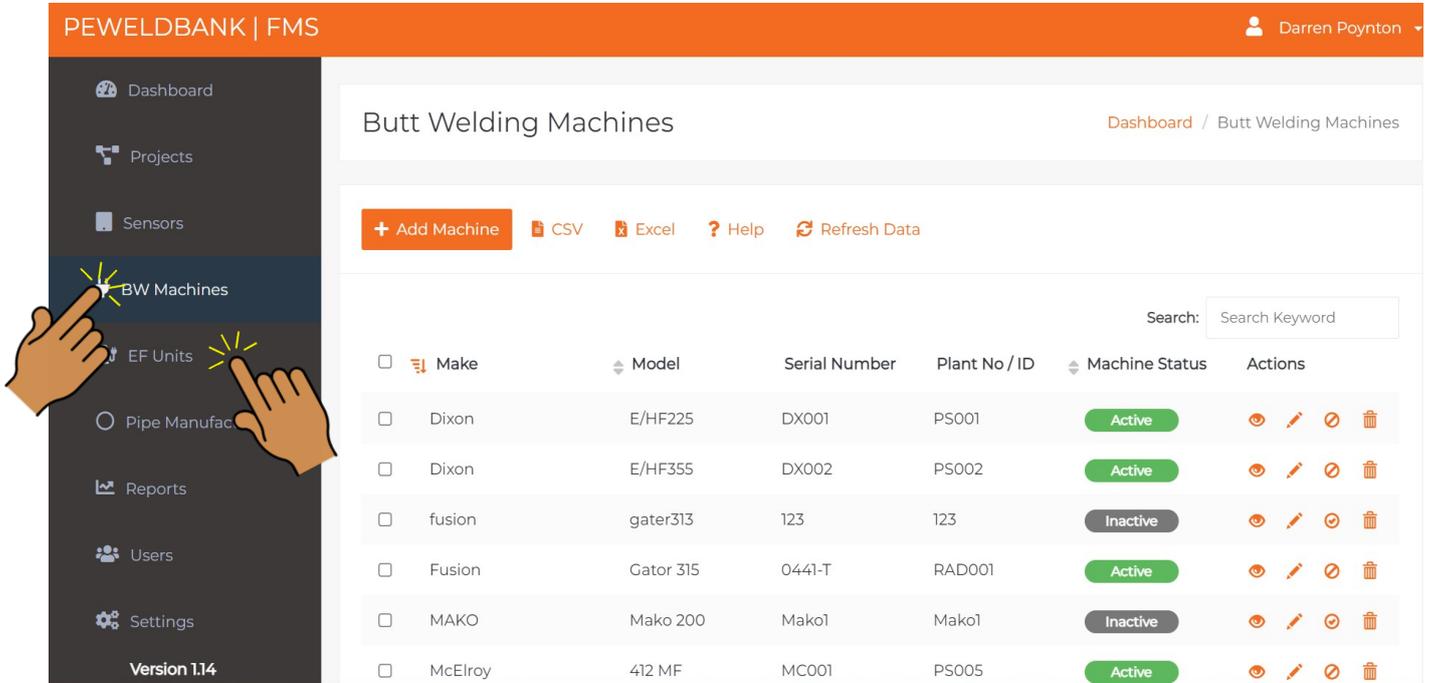
Welder Number	First Name	Last Name	Username	Email	Phone	User Status
PS001	Melissa	Poynton	info@polysmart.com.au	info@polysmart.com.au	0419108101	Active
PS078	Darren	Poynton	Darren002	darren@polysmart.com.au	0418108101	Active
PS833_old	David	Simons	sales3_old@fhs.com.au	sales3_old@fhs.com.au	0417361052	Active

Showing 1 to 3 of 3 entries First Previous  Next Last

## 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



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Dashboard / Butt Welding Machines

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

Search:

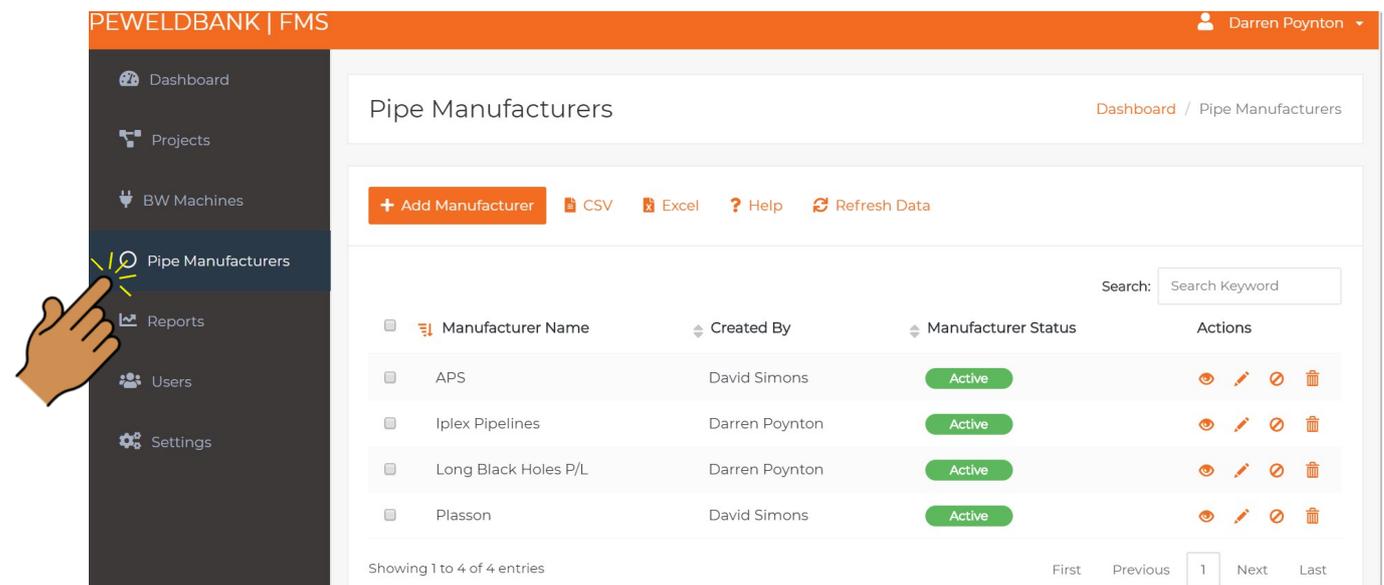
<input type="checkbox"/>	Make	Model	Serial Number	Plant No / ID	Machine Status	Actions
<input type="checkbox"/>	Dixon	E/HF225	DX001	PS001	Active	
<input type="checkbox"/>	Dixon	E/HF355	DX002	PS002	Active	
<input type="checkbox"/>	fusion	gater313	123	123	Inactive	
<input type="checkbox"/>	Fusion	Gator 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 Manufactures

Set Up your Pipe and Fittings Library



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Dashboard / Pipe Manufacturers

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

Search:

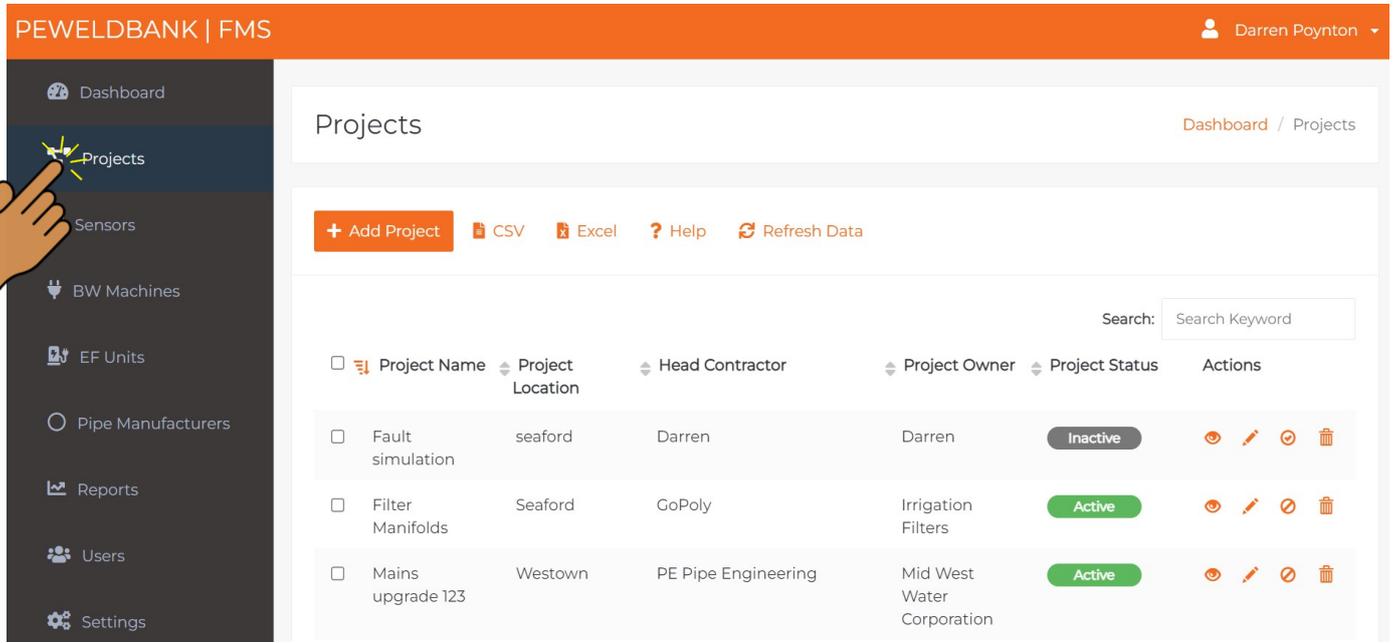
<input type="checkbox"/>	Manufacturer Name	Created By	Manufacturer Status	Actions
<input type="checkbox"/>	APS	David Simons	Active	
<input type="checkbox"/>	Iplex Pipelines	Darren Poynton	Active	
<input type="checkbox"/>	Long Black Holes P/L	Darren Poynton	Active	
<input type="checkbox"/>	Plasson	David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



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Dashboard / Projects

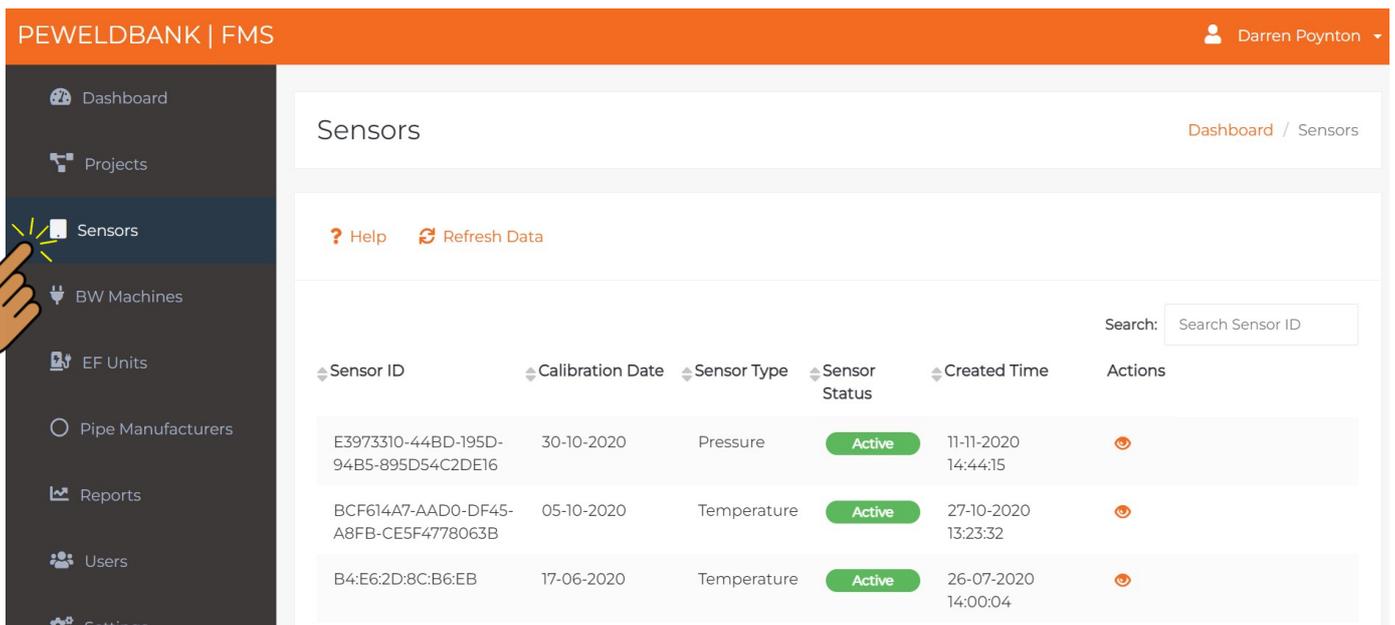
[+ Add Project](#) [CSV](#) [Excel](#) [? Help](#) [Refresh Data](#)

Search:

<input type="checkbox"/>	Project Name	Project Location	Head Contractor	Project Owner	Project Status	Actions
<input type="checkbox"/>	Fault simulation	seaford	Darren	Darren	Inactive	
<input type="checkbox"/>	Filter Manifolds	Seaford	GoPoly	Irrigation Filters	Active	
<input type="checkbox"/>	Mains upgrade 123	Westown	PE Pipe Engineering	Mid West Water Corporation	Active	

## Review active sensors

Step 6, Click on Sensors



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Dashboard / Sensors

[? Help](#) [Refresh Data](#)

Search:

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	
BCF614A7-AAD0-DF45-A8FB-CE5F4778063B	05-10-2020	Temperature	Active	27-10-2020 13:23:32	
B4:E6:2D:8C:B6:EB	17-06-2020	Temperature	Active	26-07-2020 14:00:04	



**PEWeldBank**

# **FMS Reporting system**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

# Reports

There are multiple reports and sort functions available

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Dashboard | Projects | Sensors | BW | EF Units | Pipe Manufacturers | **Report** | Settings

## Welding Reports

Dashboard / Reports

Machine Type
Project
Machine
Welder
Search
Weld Status

Welding Duration
Tags

Short Report
Back
Email Report
Help
Refresh Data
Download Reports

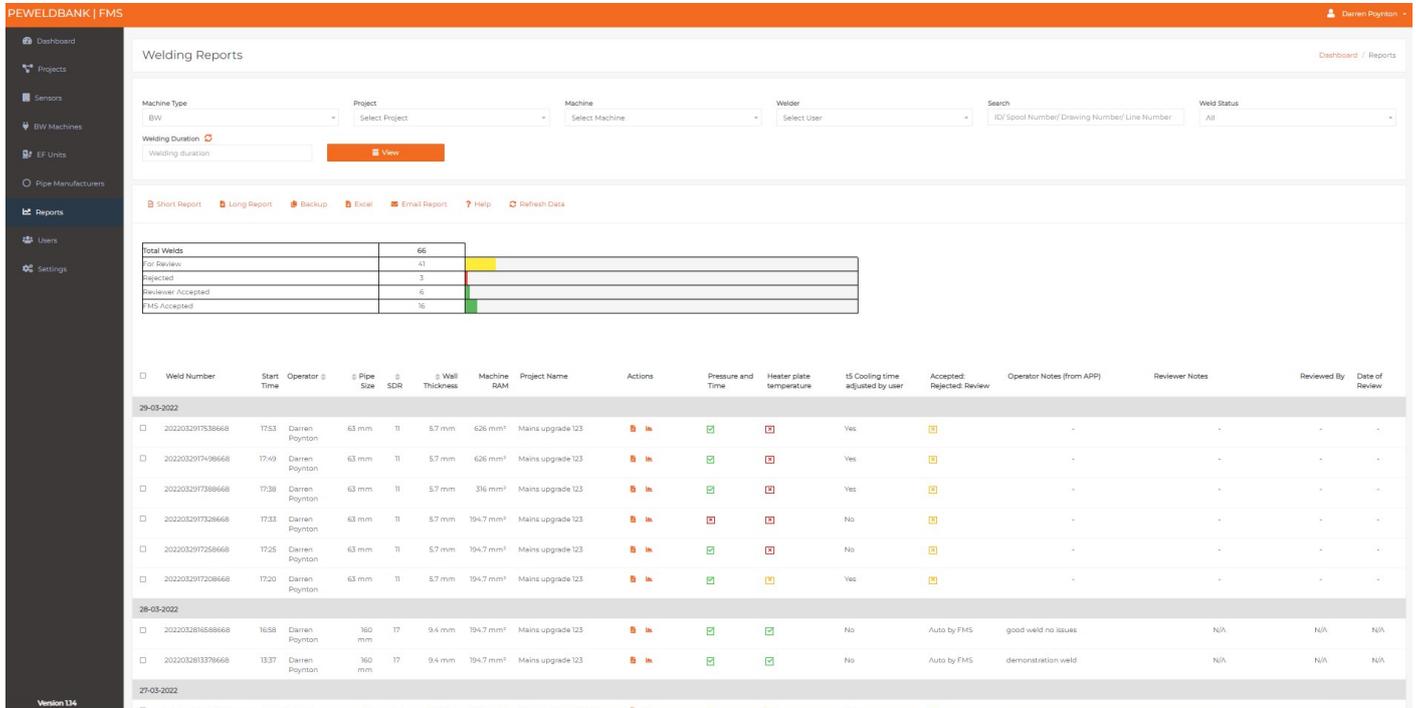
Total Welds	1007
For Review	799
Rejected	62
Reviewer Accepted	53
FMS Accepted	93

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	t5 Cooling time adjusted by user	Accepted: Rejected: Review	Operator Notes (from APP)	Reviewer Notes
23-10-2022																
<input type="checkbox"/>	20221223123108016	76 12:32	Poly Welder	110 mm	21	5.2 mm	194.7 mm <sup>2</sup>	SoCal Trials					No		-	-
<input type="checkbox"/>	20221223123108016	75 12:30	Poly Welder	110 mm	21	5.2 mm	194.7 mm <sup>2</sup>	SoCal Trials					No		-	-
30-11-2022																
<input type="checkbox"/>	20221130133988816	DIP49 13:41	Darren Poynton	160 mm	17	9.4 mm	194.7 mm <sup>2</sup>	SoCal Trials					Yes	Auto by FMS	-	N/A

## Reports

There are multiple reports and sort functions available



Machine Type	Project	Machine	Welder	Search	Weld Status
BW	Select Project	Select Machine	Select User	ID/ Spool Number/ Drawing Number/ Line Number	All

Welding Duration	View
Welding duration	View

Total Welds	66
For Review	41
Rejected	3
Reviewer Accepted	6
FMS Accepted	16

Weld Number	Start Time	Operator	Pipe Size	SDR	Wall Thickness	Machine RAM	Project Name	Actions	Pressure and Time	Heater plate temperature	t5 Cooling time adjusted by user	Accepted/Rejected/Review	Operator Notes (from APP)	Reviewer Notes	Reviewed By	Date of Review
29-03-2022																
2022032917538668	17:53	Darren Poynton	63 mm	11	5.7 mm	626 mm <sup>2</sup>	Mains upgrade 123				Yes					
2022032917496668	17:49	Darren Poynton	63 mm	11	5.7 mm	626 mm <sup>2</sup>	Mains upgrade 123				Yes					
2022032917388668	17:38	Darren Poynton	63 mm	11	5.7 mm	316 mm <sup>2</sup>	Mains upgrade 123				Yes					
2022032917328668	17:33	Darren Poynton	63 mm	11	5.7 mm	194.7 mm <sup>2</sup>	Mains upgrade 123				No					
2022032917258668	17:25	Darren Poynton	63 mm	11	5.7 mm	194.7 mm <sup>2</sup>	Mains upgrade 123				No					
2022032917208668	17:20	Darren Poynton	63 mm	11	5.7 mm	194.7 mm <sup>2</sup>	Mains upgrade 123				Yes					
28-03-2022																
2022032816588668	16:58	Darren Poynton	160 mm	17	9.4 mm	194.7 mm <sup>2</sup>	Mains upgrade 123				No	Auto by FMS	good weld no issues	N/A	N/A	N/A
2022032813378668	13:37	Darren Poynton	160 mm	17	9.4 mm	194.7 mm <sup>2</sup>	Mains upgrade 123				No	Auto by FMS	demonstration weld	N/A	N/A	N/A
27-03-2022																

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.

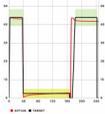
GoPoly Pty Ltd  
PO BOX 509  
Ruttenor Lakes  
Vic 3197  
darren@gopoly.com.au  
0418108101

### PEWeldBank Individual Weld Report

Date	Weld Number	Start Time	Ambient Temp	Status
16-03-2022	2022016094485977	09:47	23.9° C	FMS Accepted

Weld Details		Required	Actual	Unit
P1 bead-up pressure		39.3-48.4	43.1-43.8	bar
T1 bead-up size		1.41	39.00	Seconds
T2 heat soak pressure		0.0-0.0	0.3-2.7	bar
T2 heat soak time		113-141	127	Seconds
T3 heater plate removal time		s8	8	Seconds
T4 time to achieve fusion jointing pressure		s7	s7	Seconds
T5 fusion jointing pressure		39.3-48.4	41.8-42.1	bar
T5 cooling time in machine under pressure		s01:00	01:00	Min:Sec

\*\* Recommended cooling time has been adjusted by user



Welding Standard	
Standard name	ISO 21307 Single Low Pressure

1 of 5

weld number: 2022016094485977

Welding Company Details		
Name	Contact	Phone
GoPoly Pty Ltd	Darren Poynton	0418108101

Operator Details			
Operator	ID Number	DOB	App Version
Darren Poynton	P50058	28-02-1961	2.2.1

Pipe / Fitting Details		METRIC (mm)				Batch No.
Material	Manufacturer	Type	Shape	DN	Wt	
Spirot 1	Iplex Pipelines	PE100	Pipe	160	17	9.4 1235566
Spirot 2	Iplex Pipelines	PE100	Pipe	160	17	9.4 1235566

Machine Details				
Brand	Model	Ram Size	Serial No.	Calibration Date
Ribmo	Basic 160	194.7 mm <sup>3</sup>	136000013C 135000012F 135000013F	27-08-2021

Sensor Details				
Brand	Model	Serial No.	Calibration Date	Firmware Version
PEWeldBank	Pressure	PWB-P133	30-AE-A4-F3-A6-DE	10-11-2021 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 Number	Project Contact Details
test 1	test1	test1 1234567890

Asset Details		
Drawing Number	Spool Number	Line Number
12356	35776	2467

GPS Coordinates at Time of Completed Weld	
Longitude	Latitude
145.13562	-38.112098

Heater Plate Target (° C)		
	Front	215-235
Zone 1		223
Zone 2		226
Zone 3		224
Zone 4		227
Average		224.16
Fixed Point Sensor		226-230

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

3 of 5

weld number: 2022016094485977

#### Sketch Pad



#### Operator Identification Photo



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

#### OH&S Take 5

STOP (Ask Yourself)	
Am I aware of crushing points? (hydraulic movement)	Yes
Am I aware of sharp objects? (facing blades)	Yes
Am I aware of burning? (heating plates)	Yes
Have I protected myself from energy sources? (electrical, hydraulic, temperature)	Yes

THINK	
If a procedure or work instruction exists for the job am I familiar with it?	Yes
Am I trained, competent and authorised to do the job?	Yes
Do I have fit for purpose tools, equipment and PPE?	Yes
Can I control the risks associated with my task that effect the health and safety of myself or those around me and / or impact the environment?	Yes
If a permit is required for the job has a JSA or SWM etc. been completed?	Yes

IDENTIFY	
Have I identified all the hazards and existing controls for the job?	Yes
Have I identified all the hazards and existing controls in the surrounding areas?	Yes

CONTROL	
Am I satisfied existing controls are adequate?	Yes

PROCEED - PERFORM THE TASK SAFELY

4 of 5

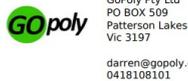
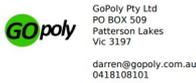
weld number: 2022016094485977

5 of 5

weld number: 2022016094485977

# 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

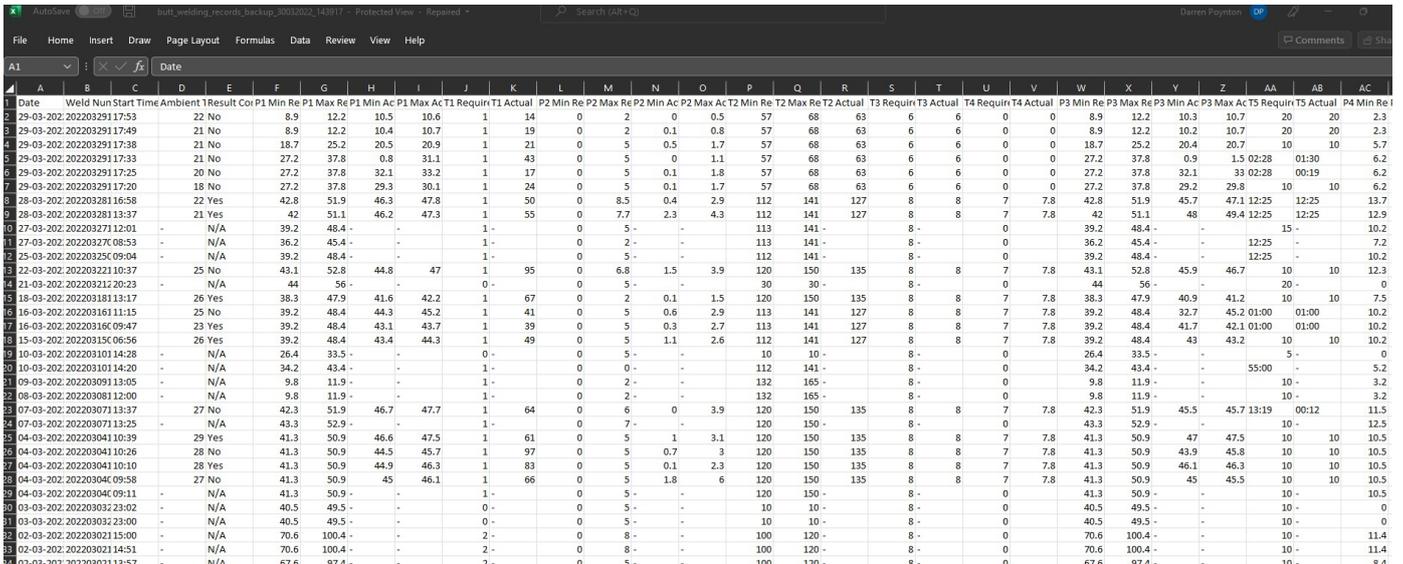


**PEWeldBank Weld Summary (Short)**

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	202203291749668	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	2022032917258668	17:25	Darren Poynton	63 mm	11	12341234
29-03-2022	2022032917208668	17:20	Darren Poynton	63 mm	11	12341234
28-03-2022	202203281658668	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	P001
27-03-2022	2022032708528597	08:53	Darren Poynton	160 mm	17	test1
25-03-2022	2022032509048597	09:04	Darren Poynton	160 mm	17	test1
22-03-2022	2022032210378597	10:37	Darren Poynton	160 mm	17	test1
21-03-2022	2022032120128597	20:23	Darren Poynton	160 mm	17	test1
18-03-2022	202203181348597	13:17	Darren Poynton	160 mm	17	test1
16-03-2022	202203161138597	11:35	Darren Poynton	160 mm	17	test1
16-03-2022	2022031609448597	09:47	Darren Poynton	160 mm	17	test1
15-03-2022	2022031506568597	06:56	Darren Poynton	160 mm	17	test1
10-03-2022	202203104288597	14:28	Darren Poynton	160 mm	17	test1
10-03-2022	202203104208597	14:20	Darren Poynton	160 mm	17	test1
09-03-2022	2022030913048597	13:05	Darren Poynton	125 mm	11	test1
08-03-2022	2022030811588597	12:00	Darren Poynton	125 mm	11	test1
07-03-2022	2022030713388597	13:37	Darren Poynton	160 mm	17	test1
07-03-2022	2022030713248597	13:25	Darren Poynton	160 mm	17	test1
04-03-2022	2022030410398597	10:39	Darren Poynton	160 mm	17	test1
04-03-2022	2022030410288597	10:26	Darren Poynton	160 mm	17	test1
04-03-2022	2022030410108597	10:10	Darren Poynton	160 mm	17	test1
04-03-2022	2022030409588597	09:58	Darren Poynton	160 mm	17	test1
04-03-2022	2022030409118597	09:11	Darren Poynton	160 mm	17	test1
03-03-2022	202203032028597	23:02	Darren Poynton	160 mm	17	test1

**PEWeldBank Weld Summary (Long)**

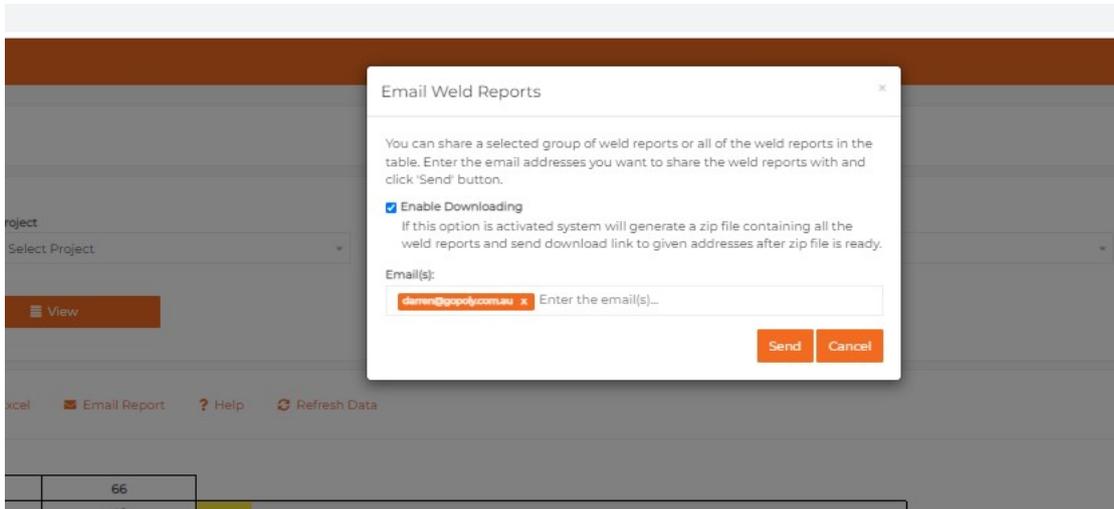
Date	Weld Number	Start Time	Operator	Pipe Size	SDR	Wall Thickness	Machine RAM	Job number
29-03-2022	202203291738668	17:53	Darren Poynton	63 mm	11	5.7 mm	636 mm²	12341234
29-03-2022	202203291749668	17:49	Darren Poynton	63 mm	11	5.7 mm	626 mm²	12341234
29-03-2022	202203291738668	17:38	Darren Poynton	63 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	2022032917258668	17:25	Darren Poynton	63 mm	11	5.7 mm	194.7 mm²	12341234
29-03-2022	2022032917208668	17:20	Darren Poynton	63 mm	11	5.7 mm	194.7 mm²	12341234
28-03-2022	2022032816588668	16:58	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	12341234
28-03-2022	2022032813788668	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	P001
27-03-2022	2022032708528597	08:53	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
25-03-2022	2022032509048597	09:04	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
22-03-2022	2022032210378597	10:37	Darren Poynton	160 mm	17	10.0 mm	194.7 mm²	test1
21-03-2022	2022032120128597	20:23	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
18-03-2022	202203181348597	13:17	Darren Poynton	160 mm	17	10.0 mm	194.7 mm²	test1
16-03-2022	202203161138597	11:35	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
16-03-2022	2022031609448597	09:47	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
15-03-2022	2022031506568597	06:56	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
10-03-2022	202203104288597	14:28	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
10-03-2022	202203104208597	14:20	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
09-03-2022	2022030913048597	13:05	Darren Poynton	125 mm	11	11.0 mm	753 mm²	test1



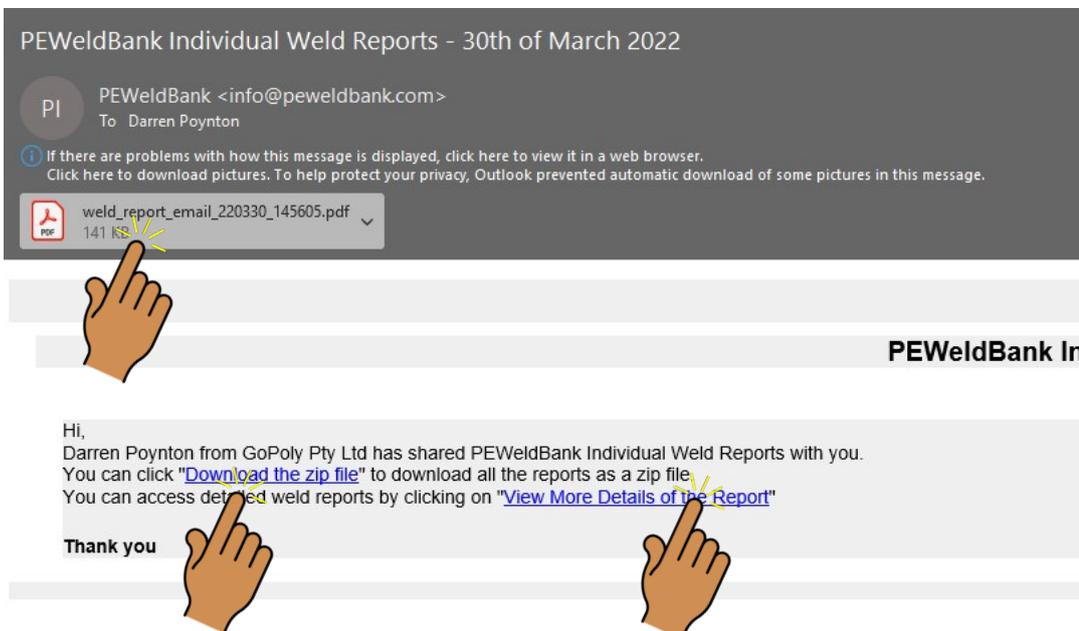
Date	Weld Number	Start Time	Operator	Pipe Size	SDR	Wall Thickness	Machine RAM	Job number
29-03-2022	202203291738668	17:53	Darren Poynton	63 mm	11	5.7 mm	636 mm²	12341234
29-03-2022	202203291749668	17:49	Darren Poynton	63 mm	11	5.7 mm	626 mm²	12341234
29-03-2022	202203291738668	17:38	Darren Poynton	63 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	2022032917258668	17:25	Darren Poynton	63 mm	11	5.7 mm	194.7 mm²	12341234
29-03-2022	2022032917208668	17:20	Darren Poynton	63 mm	11	5.7 mm	194.7 mm²	12341234
28-03-2022	2022032816588668	16:58	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	12341234
28-03-2022	2022032813788668	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	P001
27-03-2022	2022032708528597	08:53	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
25-03-2022	2022032509048597	09:04	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
22-03-2022	2022032210378597	10:37	Darren Poynton	160 mm	17	10.0 mm	194.7 mm²	test1
21-03-2022	2022032120128597	20:23	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
18-03-2022	202203181348597	13:17	Darren Poynton	160 mm	17	10.0 mm	194.7 mm²	test1
16-03-2022	202203161138597	11:35	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
16-03-2022	2022031609448597	09:47	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
15-03-2022	2022031506568597	06:56	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
10-03-2022	202203104288597	14:28	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
10-03-2022	202203104208597	14:20	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
09-03-2022	2022030913048597	13:05	Darren Poynton	125 mm	11	11.0 mm	753 mm²	test1

## 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

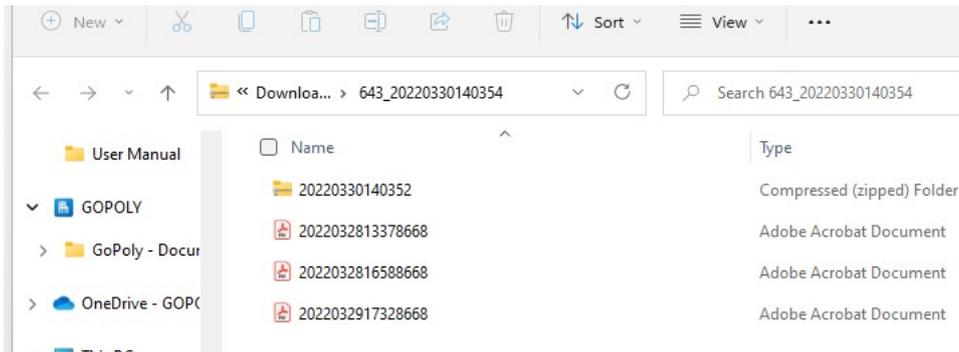
The first one is a summary.

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

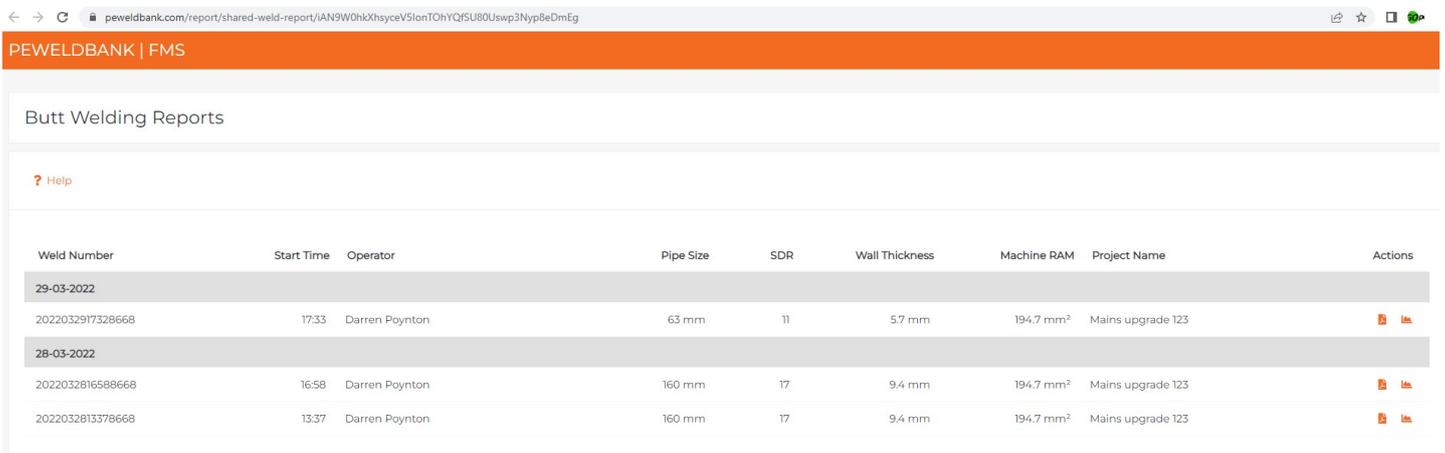
 PEWeldBank Weld Summary (Email)

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

# **Smartphone / Tablet User Guide**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

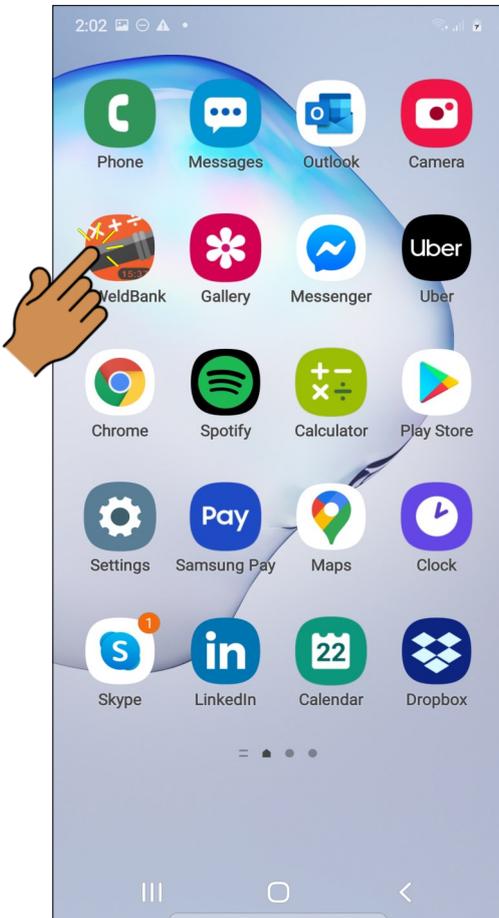
**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

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

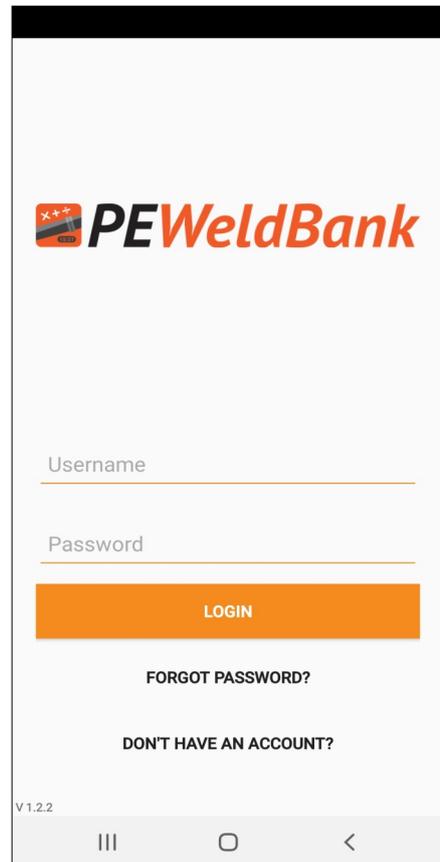
Go to search on Google Play or Apple App store enter “peweldbank”



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

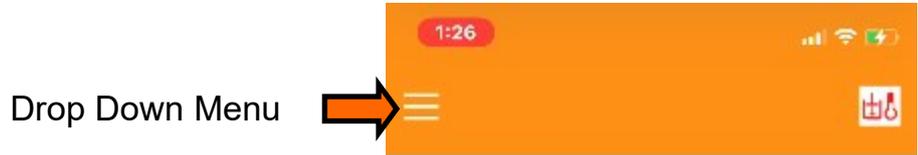


Use your Username and Password to log in, this will take you to the home screen.



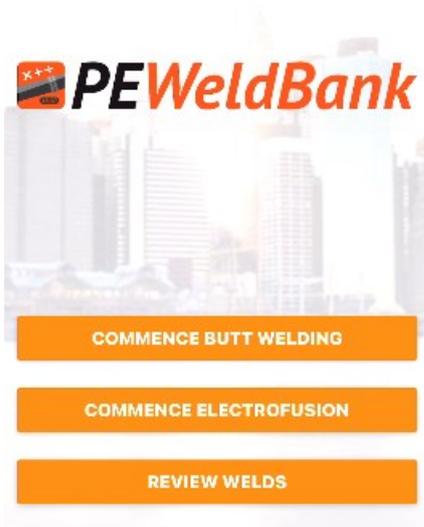
## Home Screen

Operation is very easy to access via the Home Screen

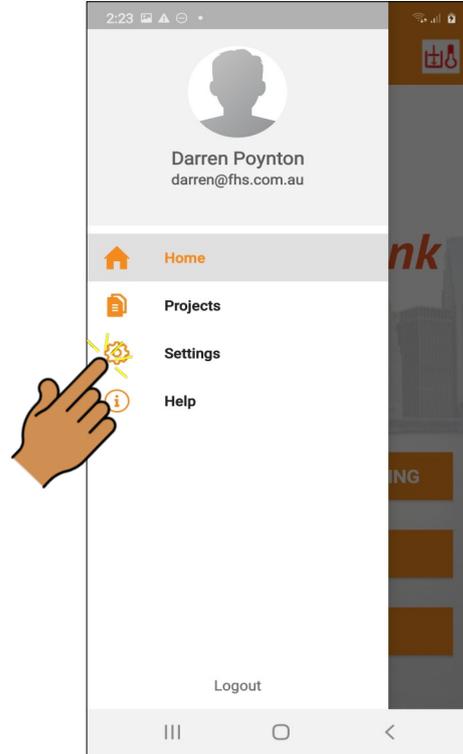


## Smartphone / Tablet - Default System Settings

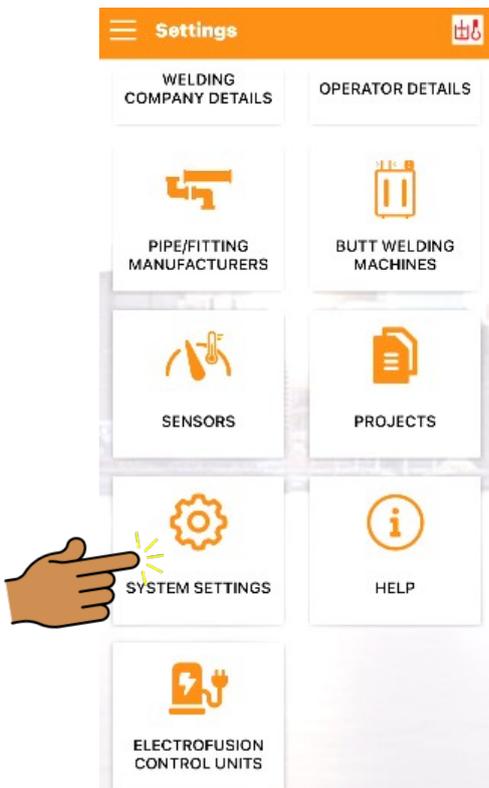
Click on dropdown menu



Click on menu item



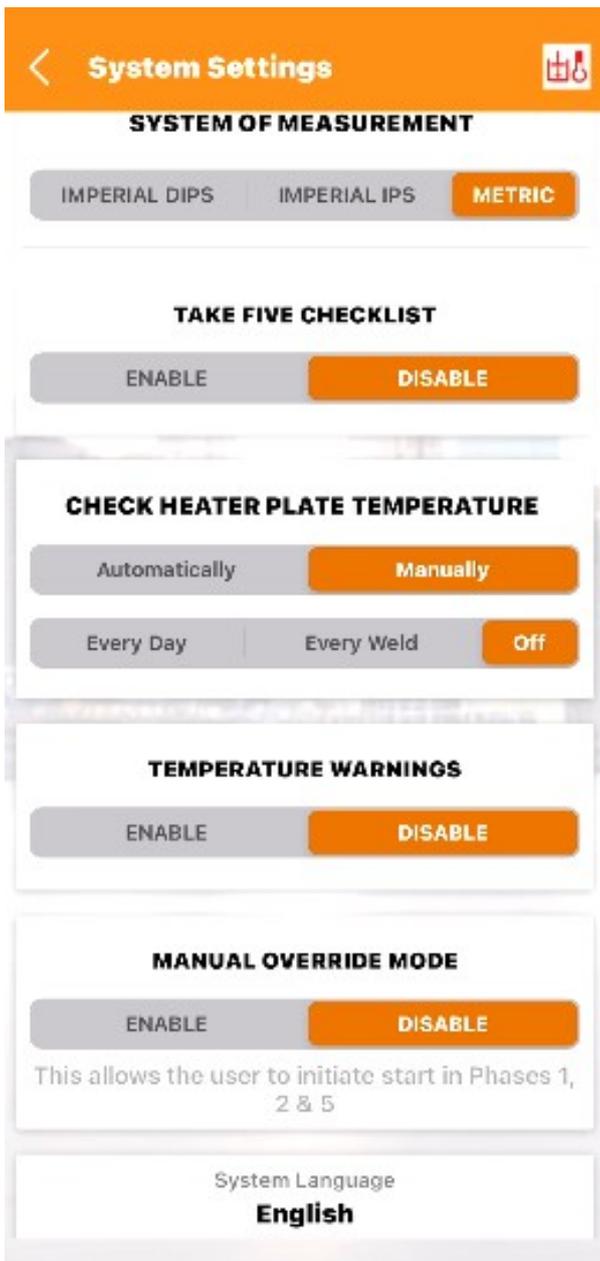
Select **System Settings** to Edit Settings



## Smartphone / Tablet - Default System Settings

# Select your preferred defaults before welding

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



### 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 intervals or turn this feature off.

### TEMPERATURE WARNINGS

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

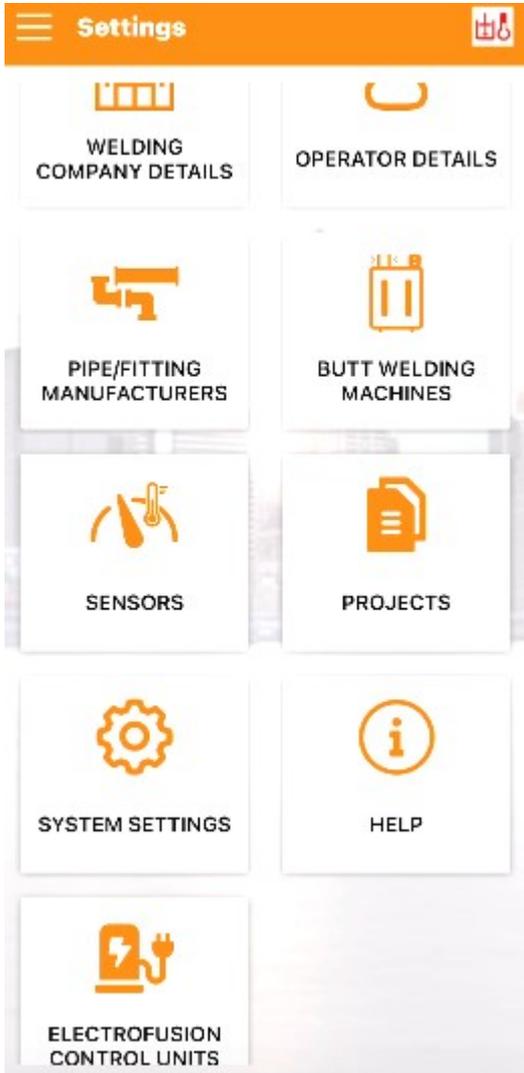
### MANUAL OVERRIDE MODE

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

### SYSTEM LANGUAGE

Enables user to choose different languages

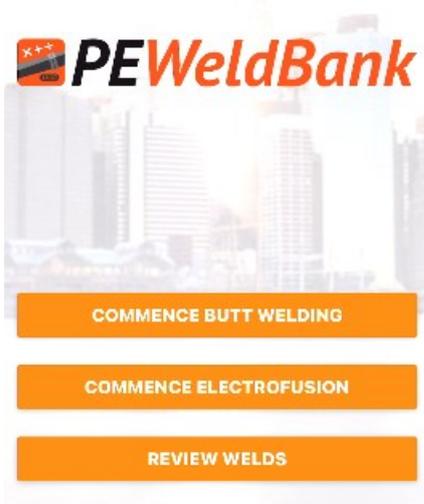
## Smartphone / Tablet - Settings



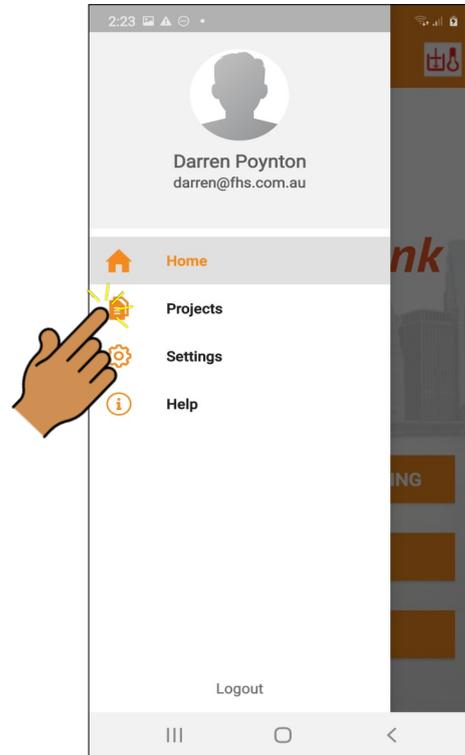
All of these options except for Sensors, System Settings and some of the Operator Details can also be edited via the FMS

## Smartphone / Tablet Menu Screens

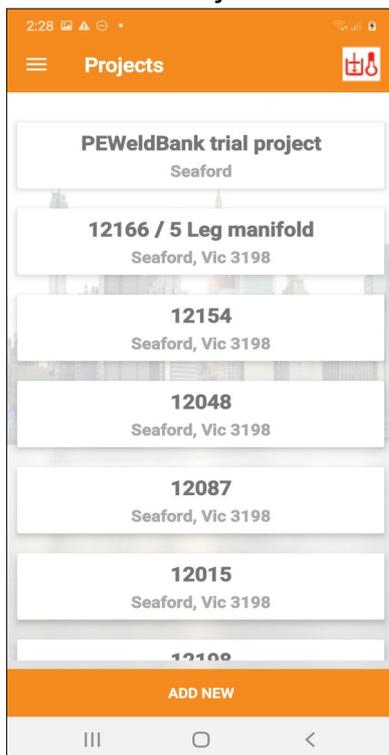
Click on dropdown menu



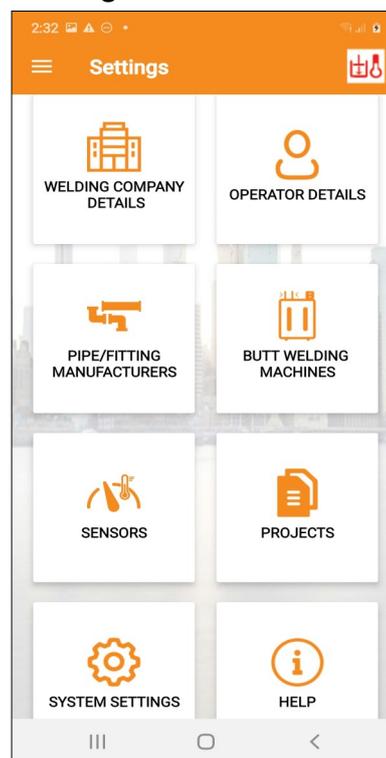
Click on menu item



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



Select **Settings** to Edit Settings





**PEWeldBank**

# **Connection to Hydraulic circuit**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

## Fitting Hydraulic Transmitter / Transducer to Machine



## Hydraulic Connection

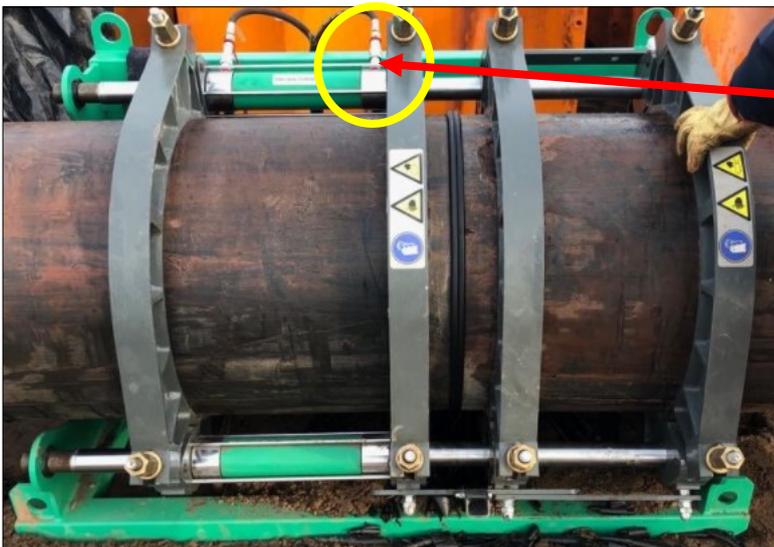


Many machines have a test port already fitted.

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 Transmitter
- 3 Orange 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



## 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 cable supplied to the Bluetooth pressure sensor **Port 1** as shown below.





**PEWeldBank**

# **Connection to Heater Plate**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto: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



# Temperature Sensors dated March 2022 & later

## Bluetooth Temperature Sensor Setup

How to connect your Temperature Sensor to your heater plate. "See Appendix 2"



**\*\*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 2

**9a**



**9b**



Info@PEWeldBank.com



**PEWeldBank**

# **Pairing Sensors to Phone or Tablet**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

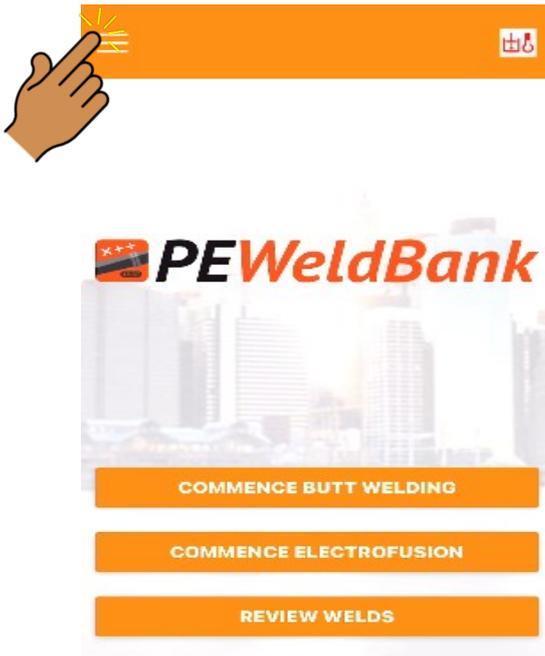
**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

## Bluetooth Setup & Pairing of Sensors

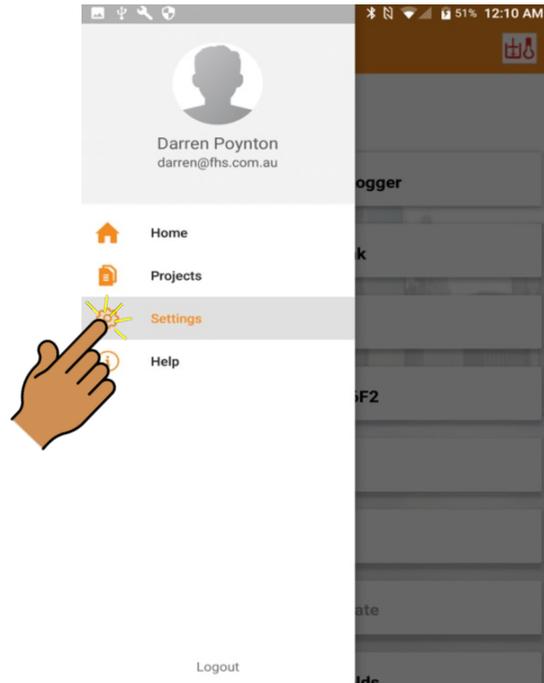
 **N.B.** you can only use sensor set with **PEWeldBank Fusion Logger** subscription, For initial pairing you must also have administrator user level permission and connection to the internet

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

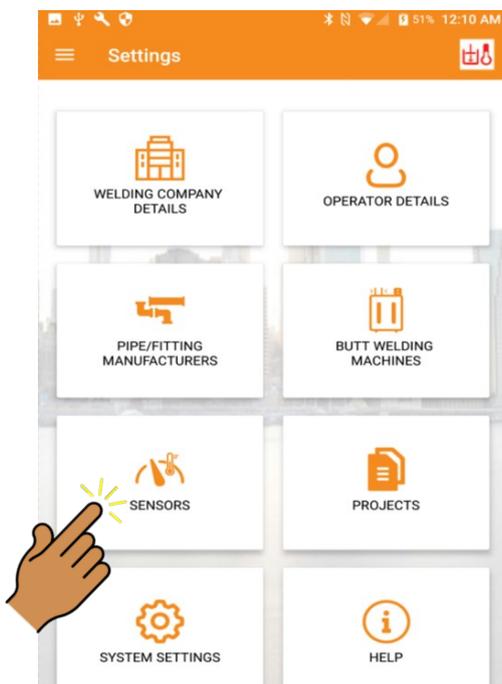
### 1. Click **Dropdown Menu**



### 2. Click **Settings**



### 3. Click **Sensors**



### 4. Click **Add New**



## Bluetooth Setup & Pairing of Sensors Continued

### Pairing of Sensors

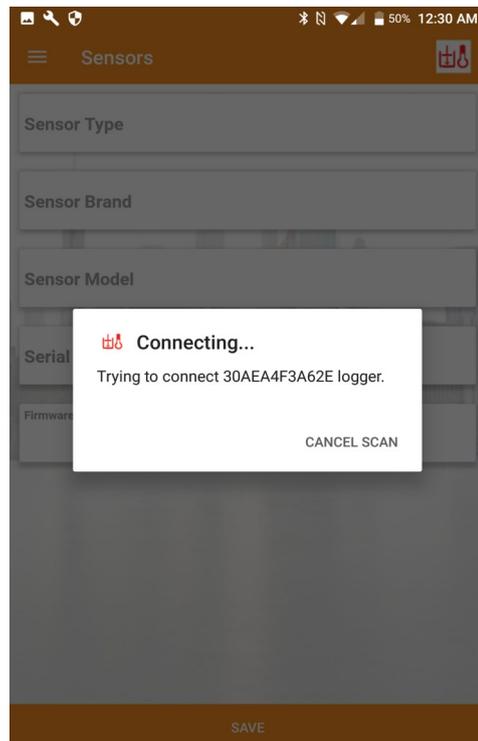
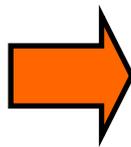
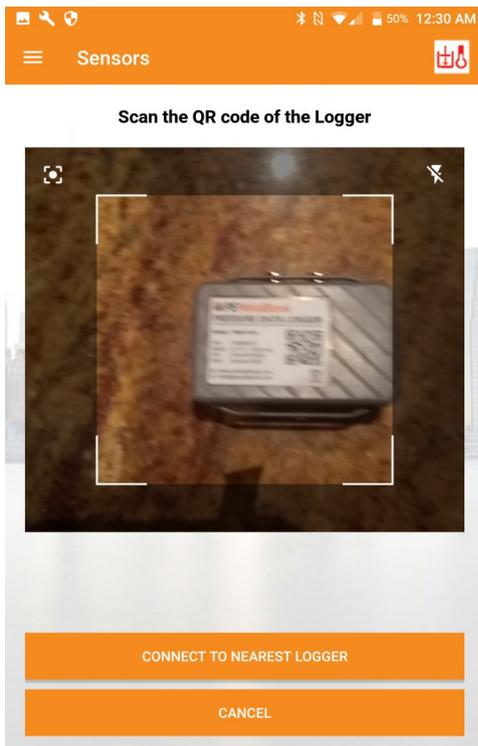
- Connect Pressure sensor to pressure at least 2 bar.
- For the Temperature sensor holding the Surface Temperature Probe against heater plate (at least 80°c / 176°f) will activate the sensor.
- The status light will flash, enabling you to proceed with Bluetooth pairing.

### 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.

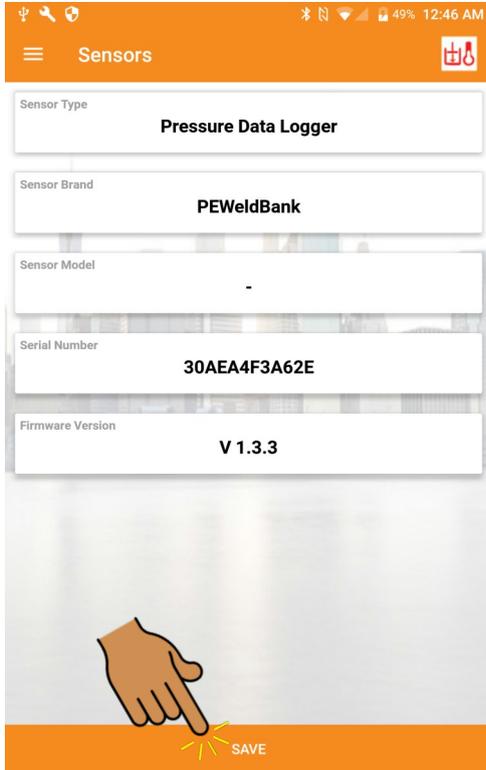
Follow instructions in Dropdown menu on smartphone or tablet [settings] [sensors] [add new] [save]

### Scan QR code:

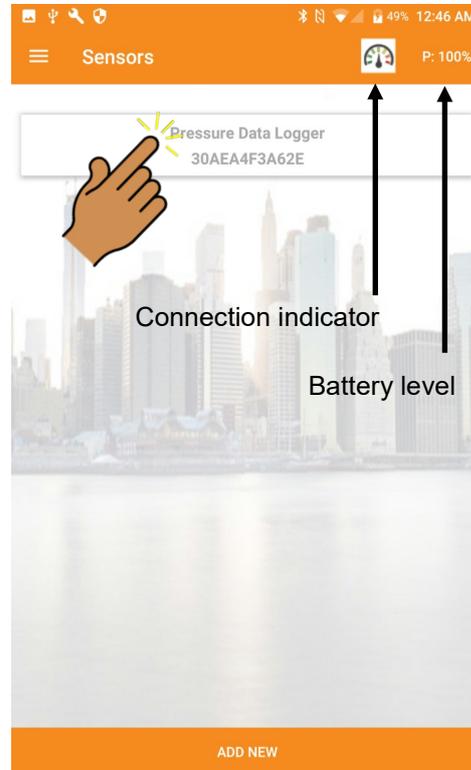


## Bluetooth Setup & Pairing of Sensors Continued

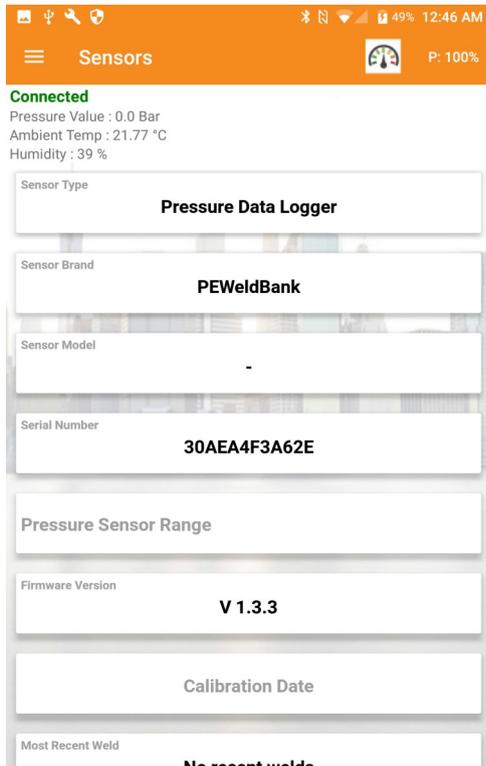
Click Save



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



**PEWeldBank**

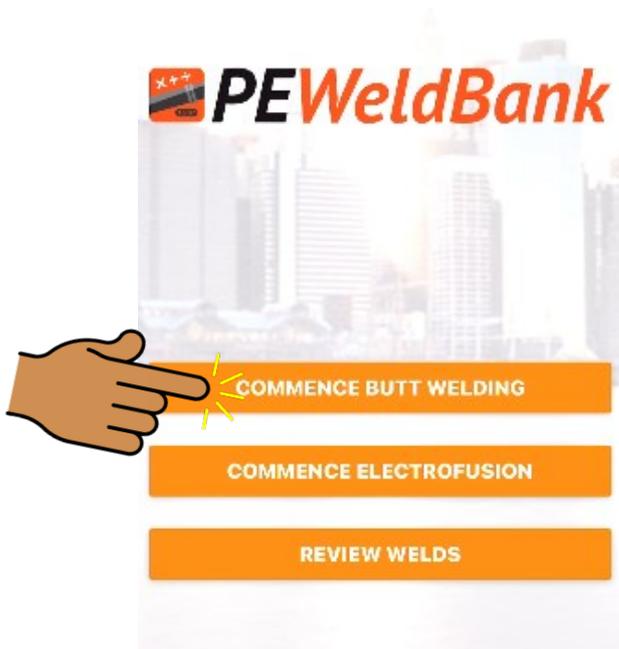
# **Welding Procedure for App**

Also see Basic Welding Machine Operating Procedure

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

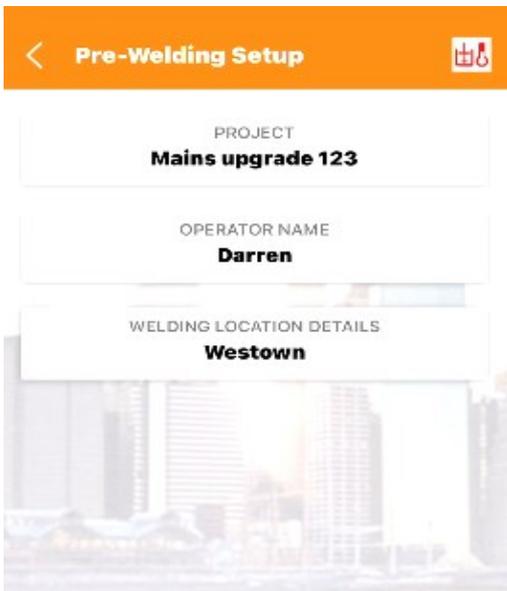
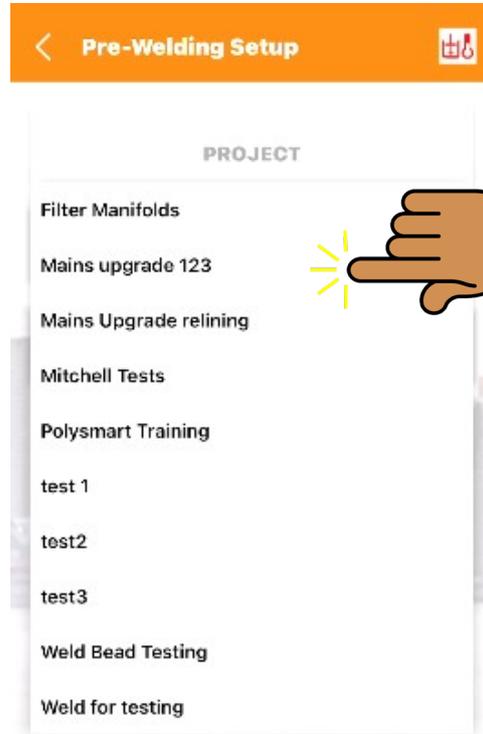
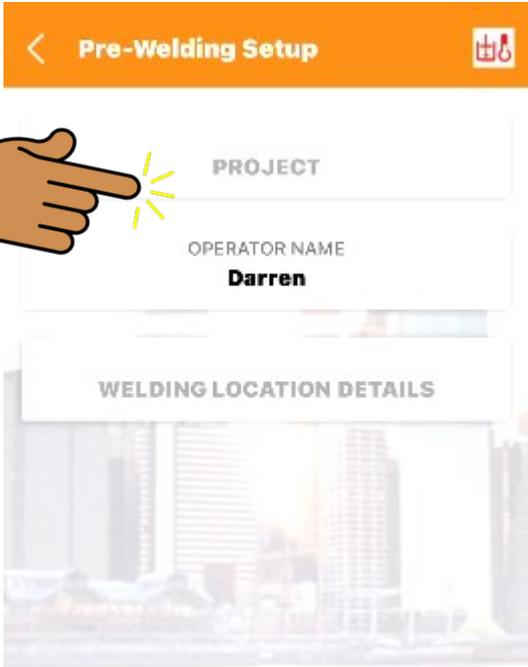
## Home Screen: Commence Butt welding or Electrofusion



From this screen you can commence Butt welding or Electrofusion.

You can also review previous welds or allocate a second GPS location

## Select Project

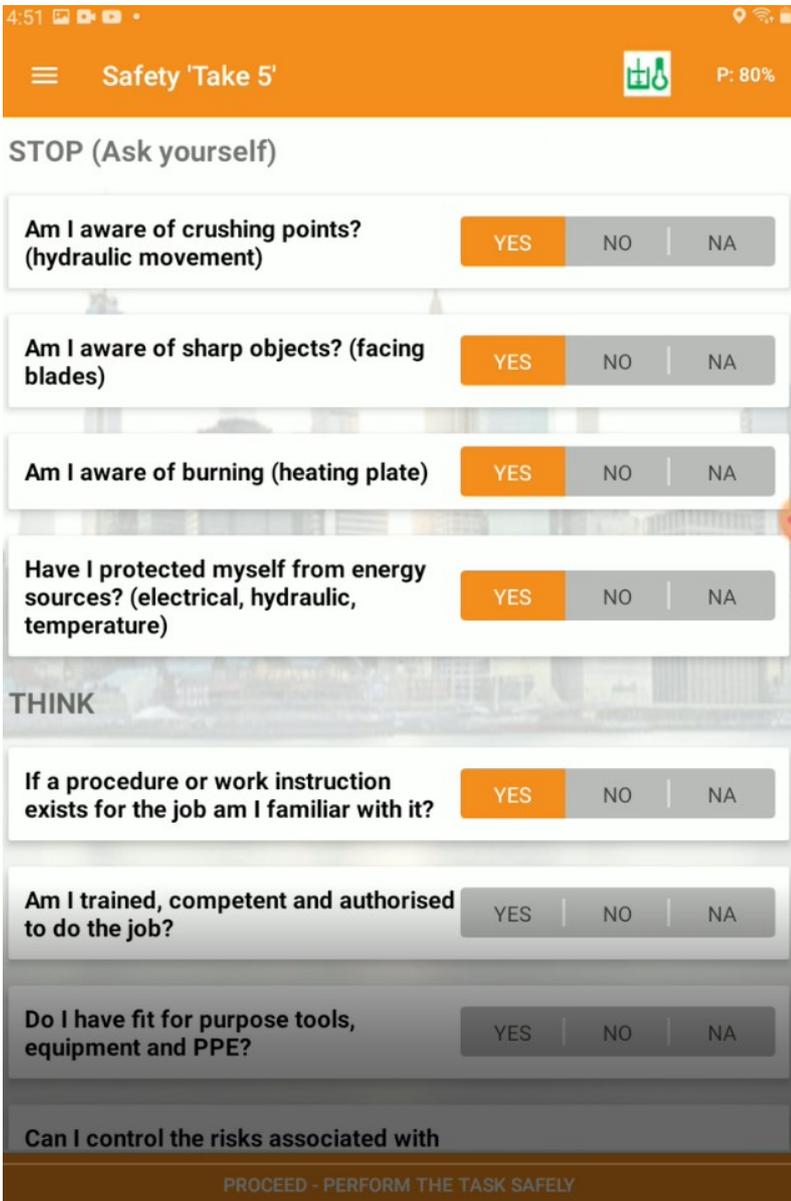


From this screen you need to select a project.

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

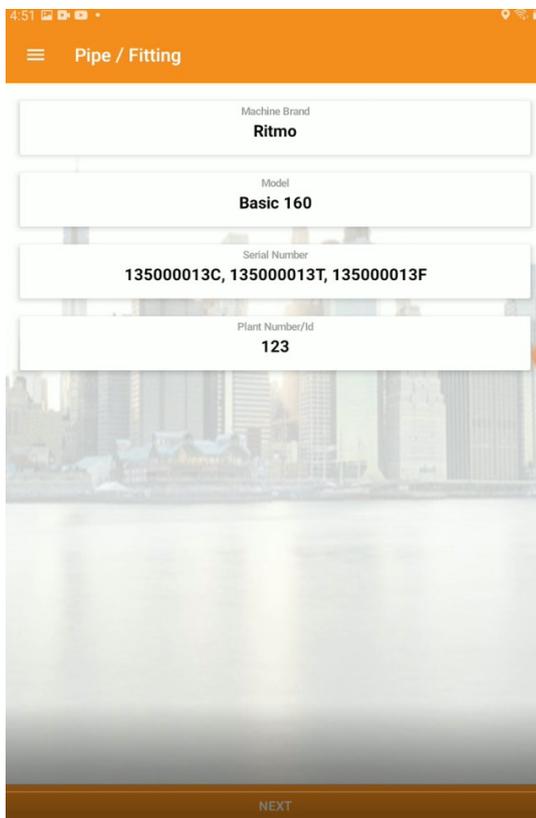
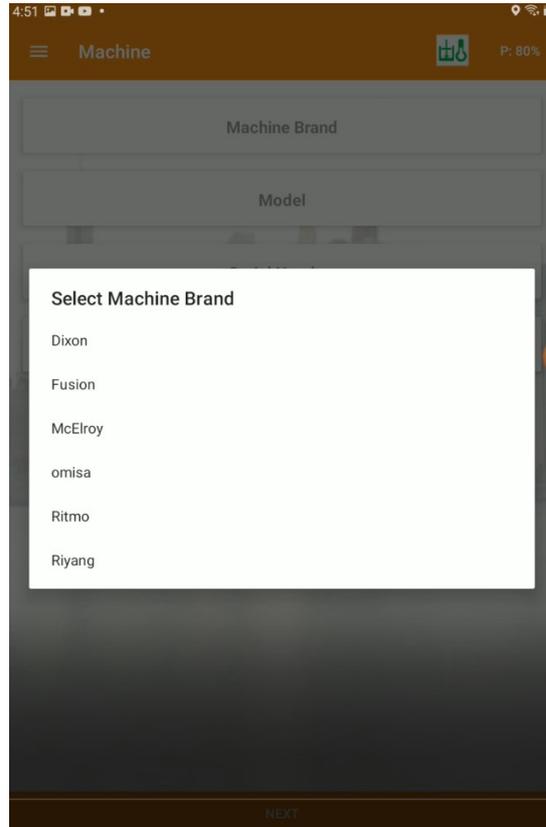
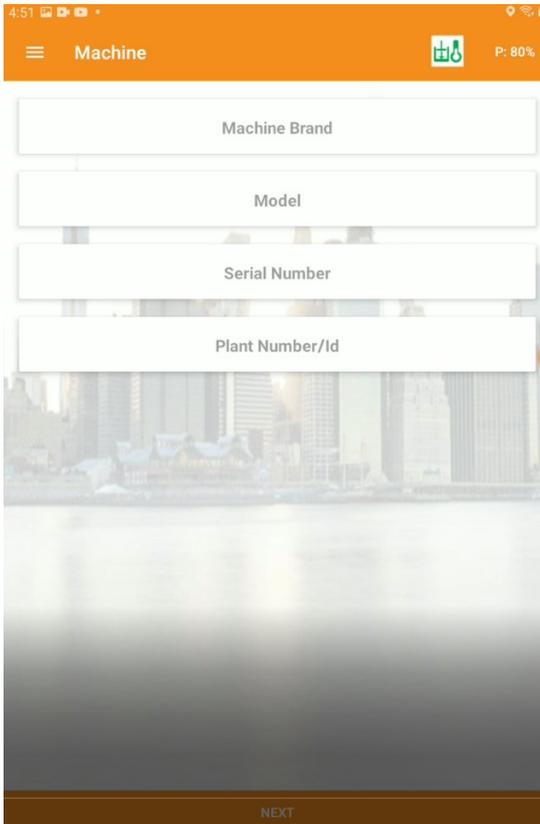
PROCEED - PERFORM THE TASK SAFELY

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



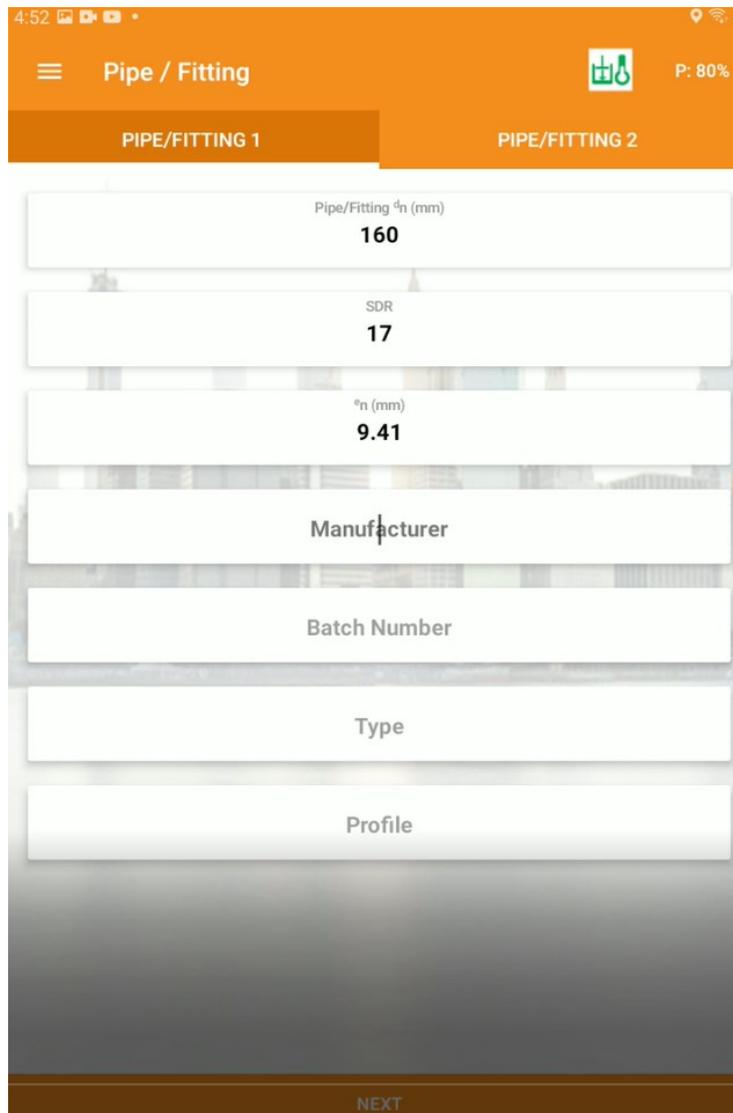
From this screen you will need to select a Machine.

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 text "Pipe / Fitting", a green icon of a pipe and fitting, and a battery level indicator "P: 80%". Below the header are two tabs: "PIPE/FITTING 1" (selected) and "PIPE/FITTING 2". The main area contains several input fields: "Pipe/Fitting  $\phi$ n (mm)" with the value "160", "SDR" with the value "17", " $e_n$  (mm)" with the value "9.41", "Manufacturer", "Batch Number", "Type", and "Profile". A "NEXT" button is located at the bottom of the screen.

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

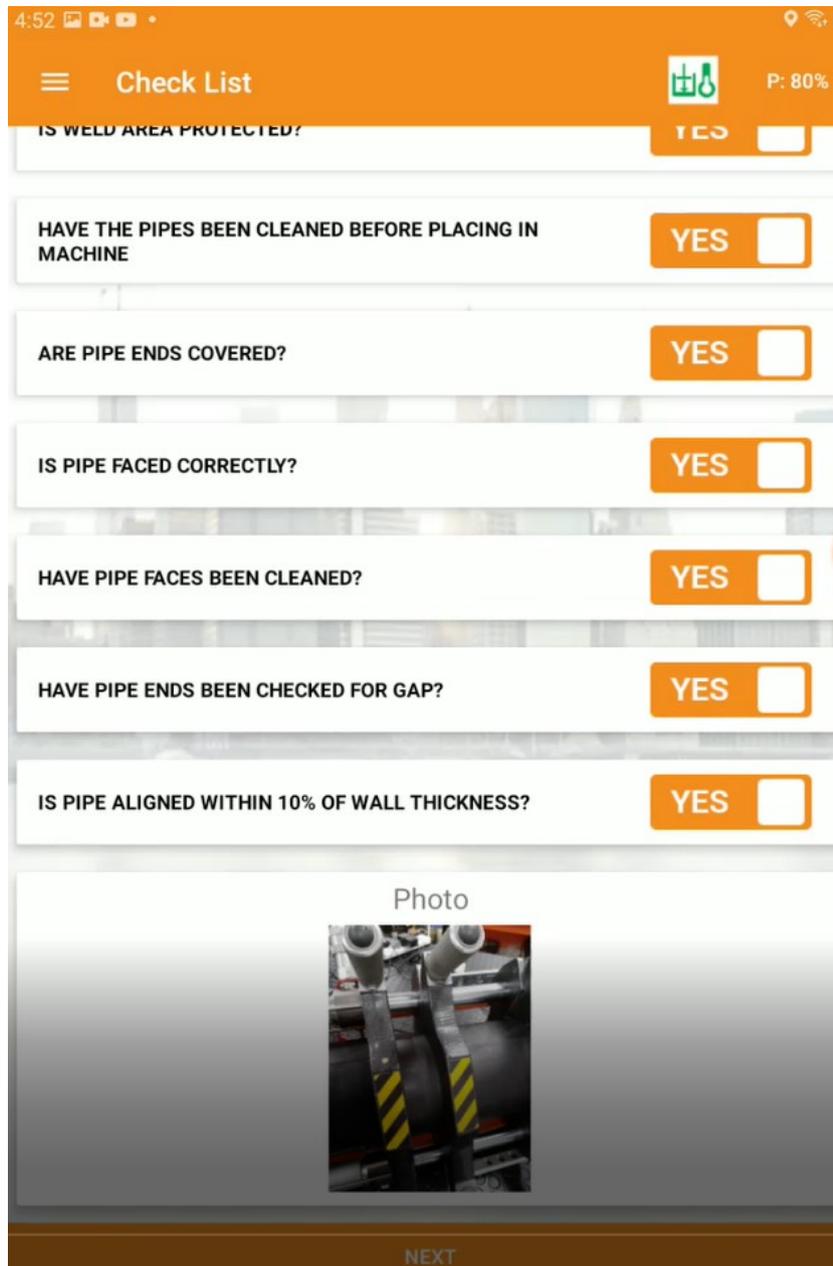
Manufacturer, Type and Profile fields are optional.

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 check list. The title bar is orange and contains a menu icon, the text "Check List", a green icon of a pipe and valve, and a progress indicator "P: 80%". The list consists of seven items, each with a question and a "YES" button with a checkbox:

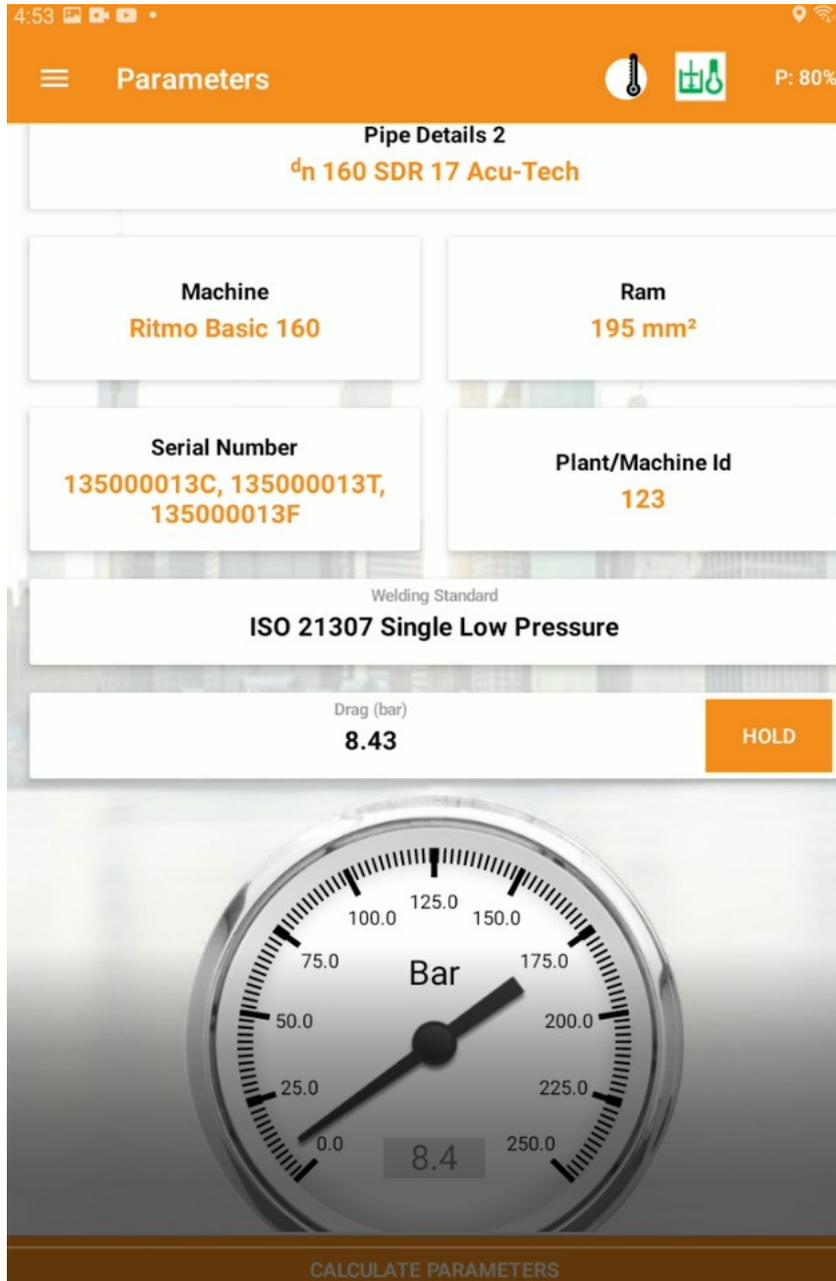
- IS WELD AREA PROTECTED? YES
- HAVE THE PIPES BEEN CLEANED BEFORE PLACING IN MACHINE YES
- ARE PIPE ENDS COVERED? YES
- IS PIPE FACED CORRECTLY? YES
- HAVE PIPE FACES BEEN CLEANED? YES
- HAVE PIPE ENDS BEEN CHECKED FOR GAP? YES
- IS PIPE ALIGNED WITHIN 10% OF WALL THICKNESS? YES

Below the list 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 questions 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 ot take a photo of pipe alignment and gap.

## Parameters

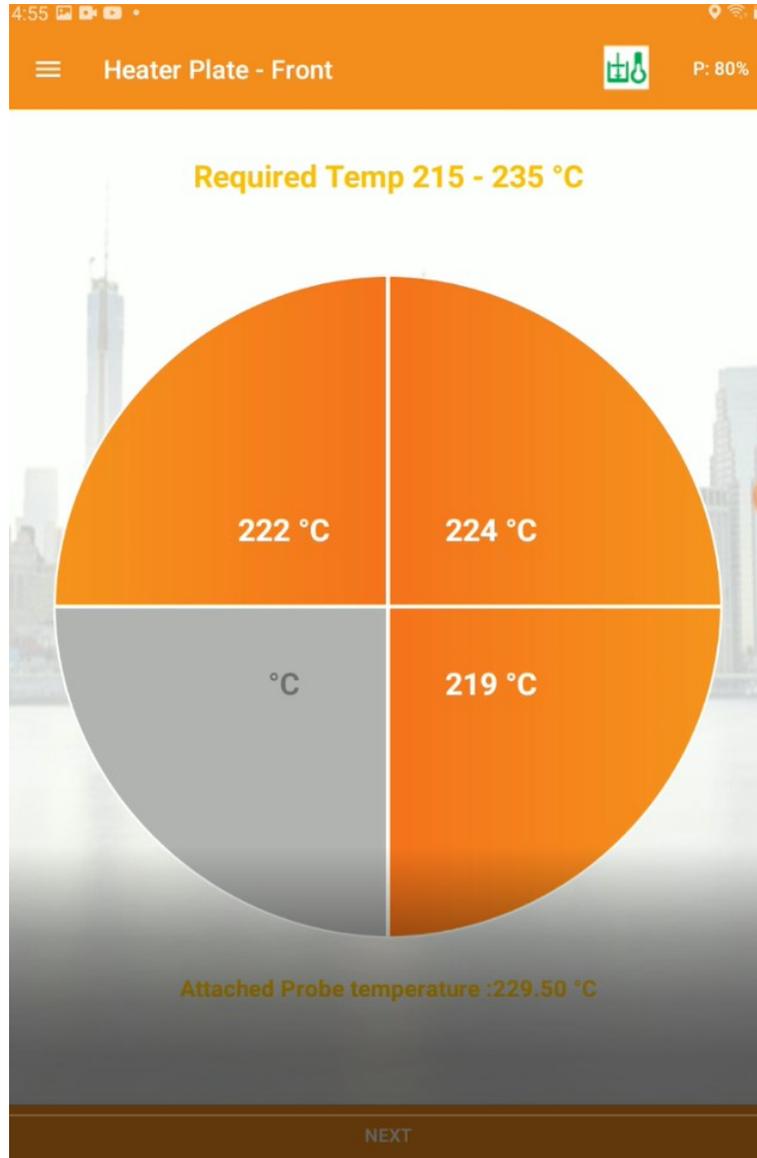


The Parameters screen displays a review of pipe and machinery and asks user to enter preferred **welding standard**, this preference is set as a default until the start of a new session.

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.

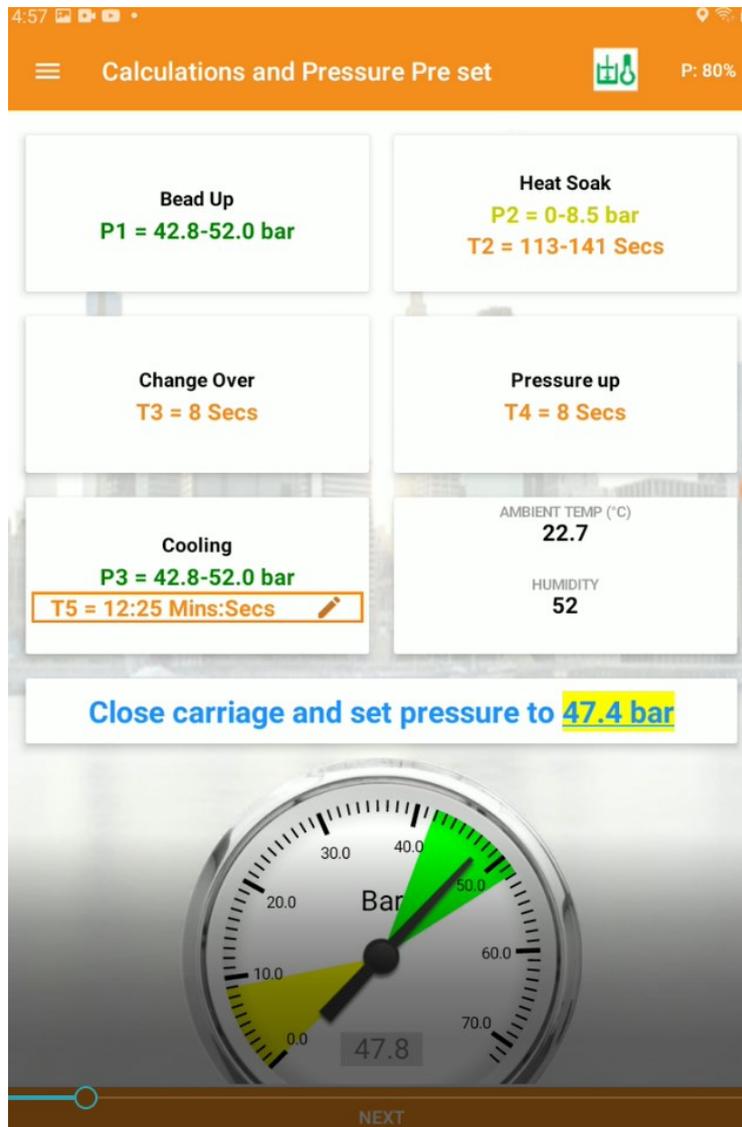
## Check Heater plate



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

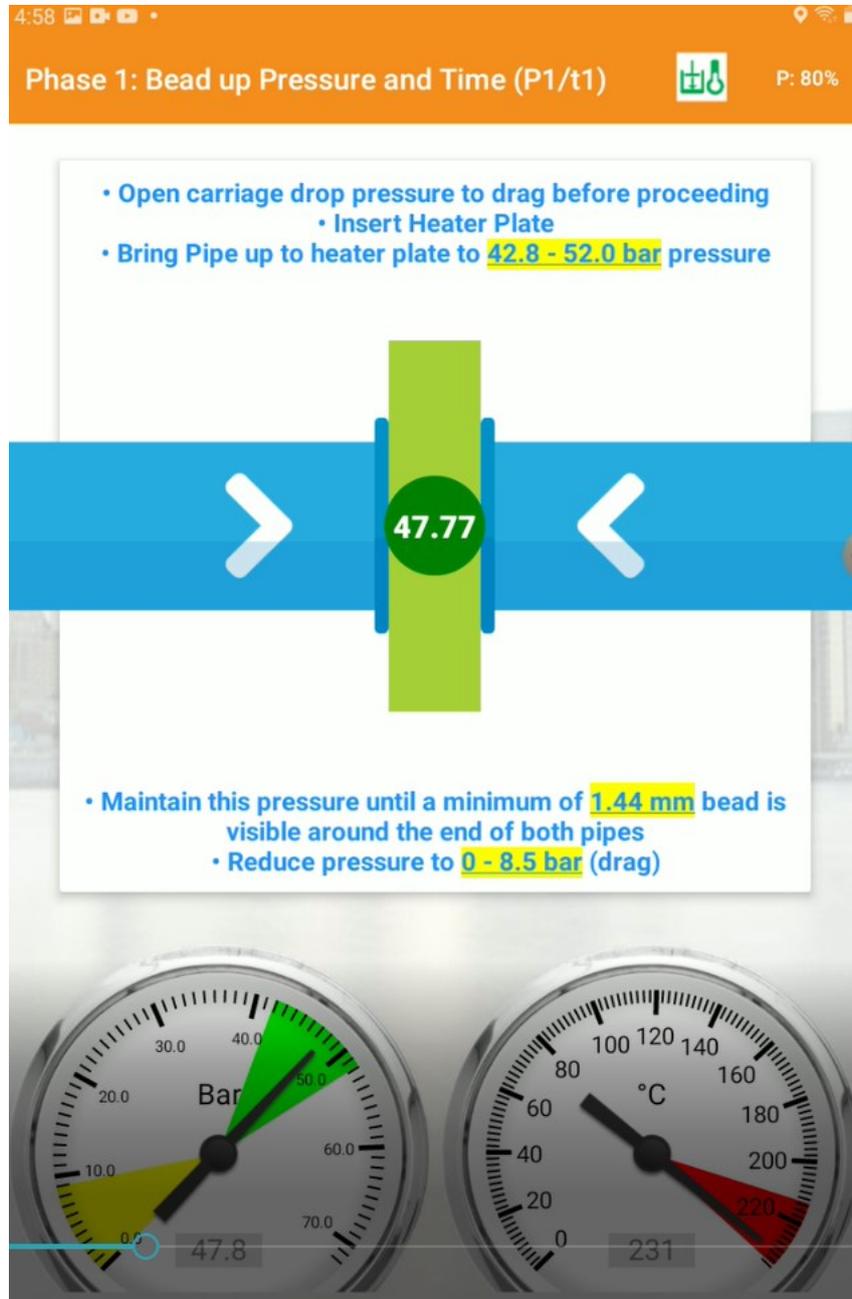


When connected to pressure sensor set, this screen automatically logs Ambient temperature and Humidity, if not connected to sensor set these can be added manually.

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!

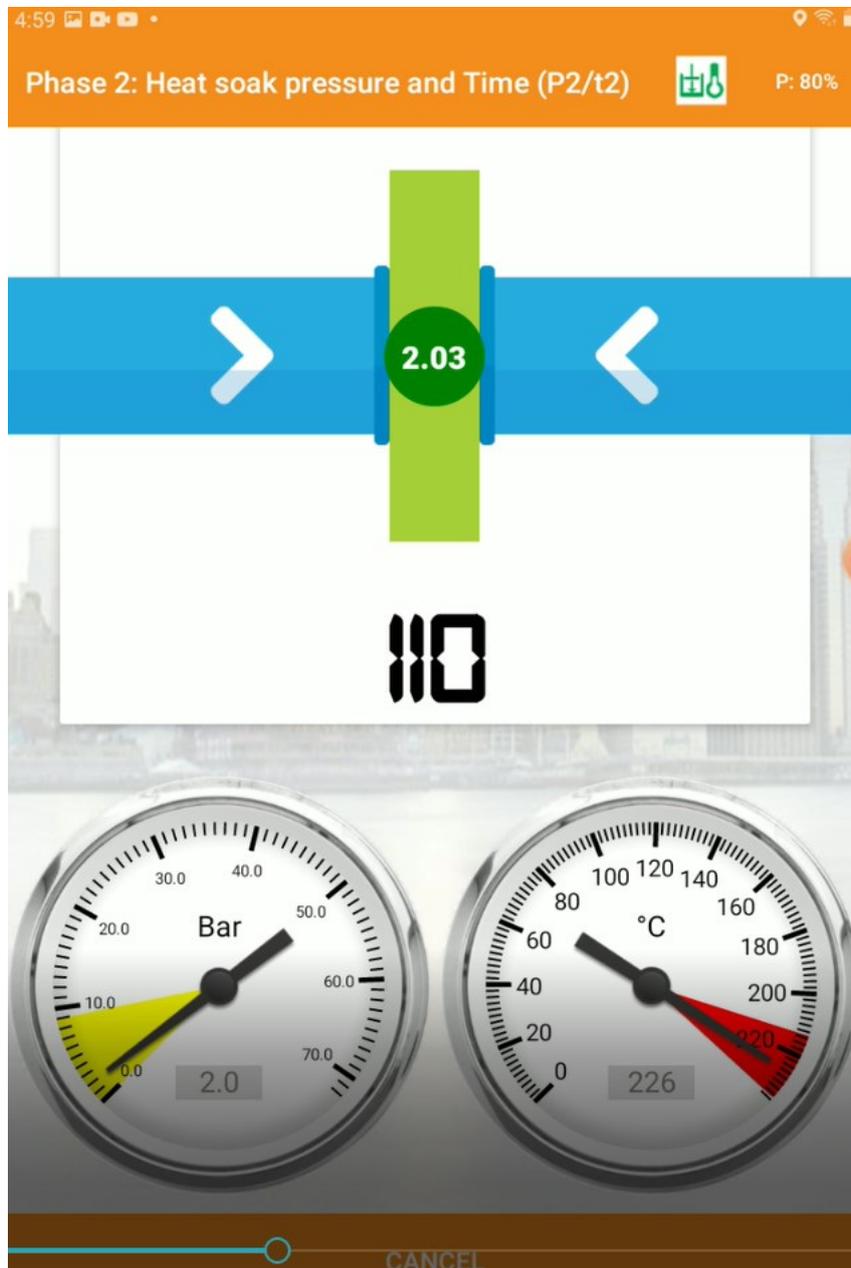
Most importantly the user must set pressure for Phase 1 and Phase 5 at this point.

## Phase 1: Bead up



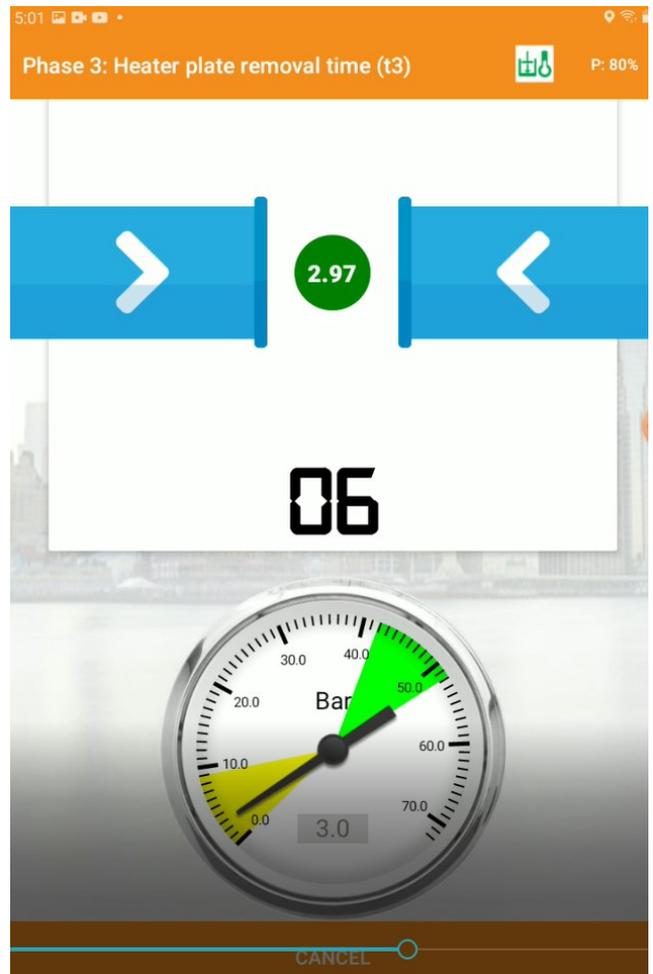
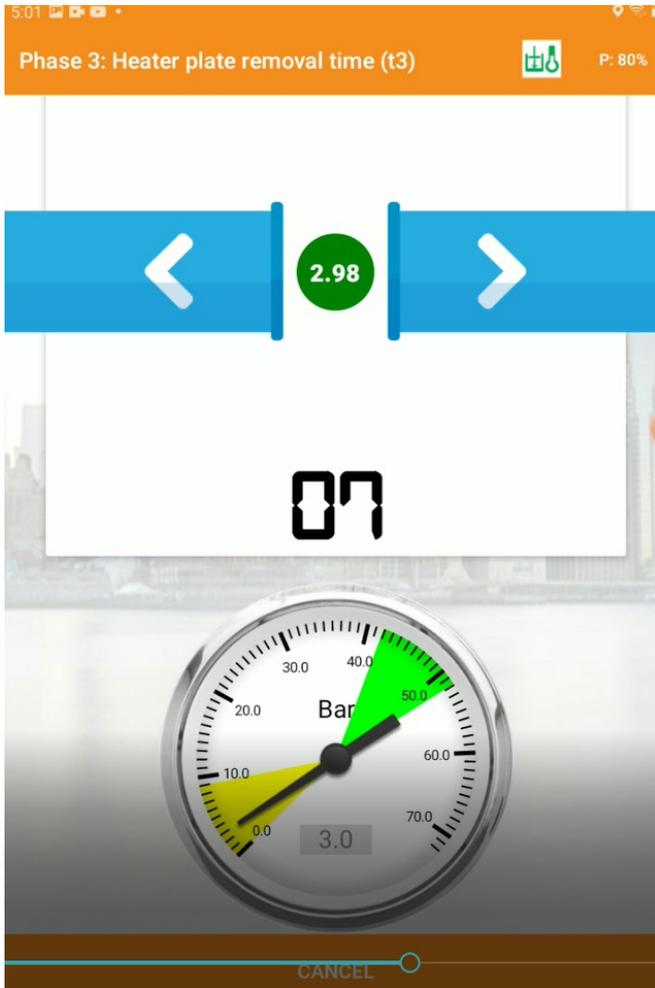
Phase 1 screen instructs the user what to do and when to reduce pressure to Drag. Temperature can also be monitored during this Phase

## 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)

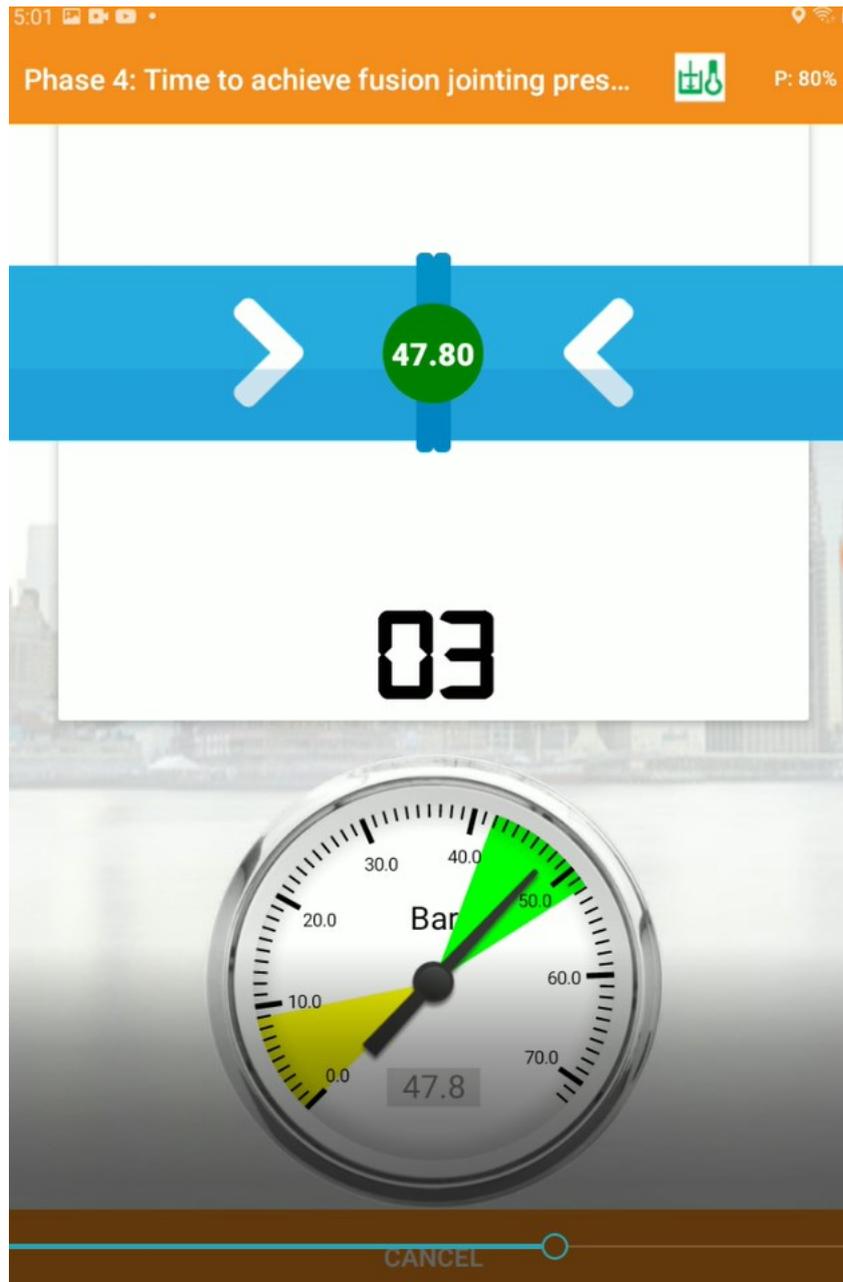
### Phase: 3. Heater Plate Removal



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

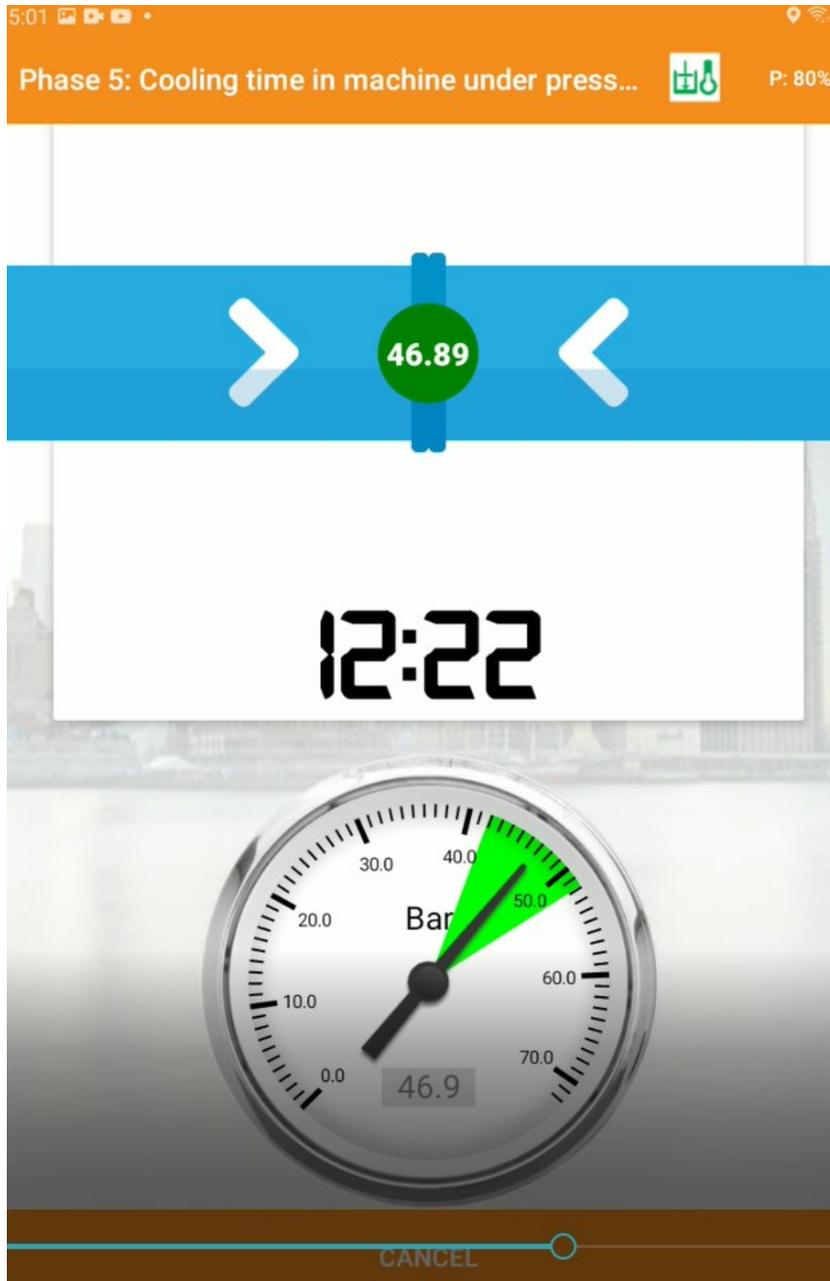
## Phase 4: Pressure up

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



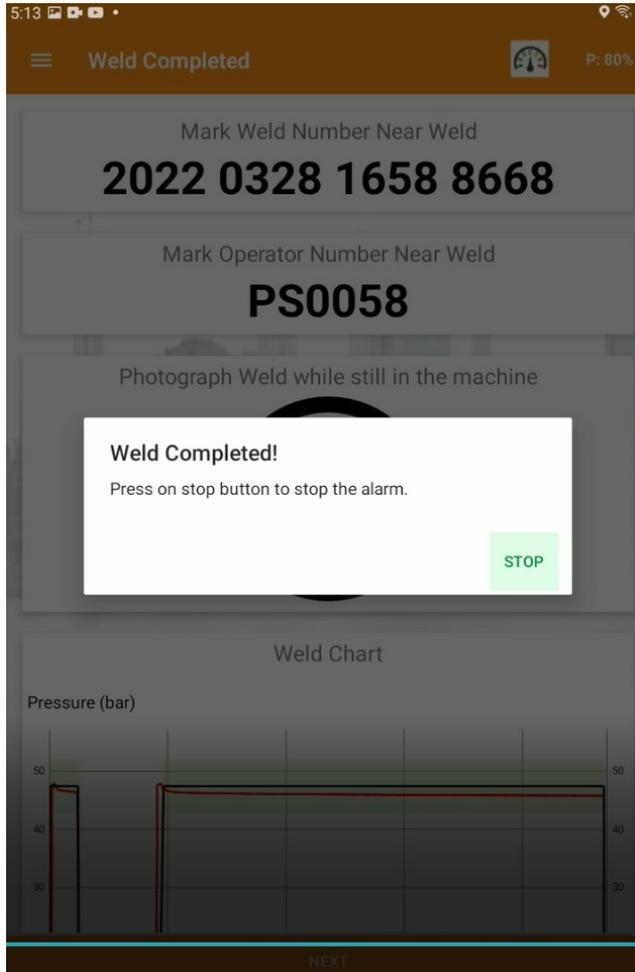
User is notified by a alarm to bring ends back up to weld pressure within displayed time.

## 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

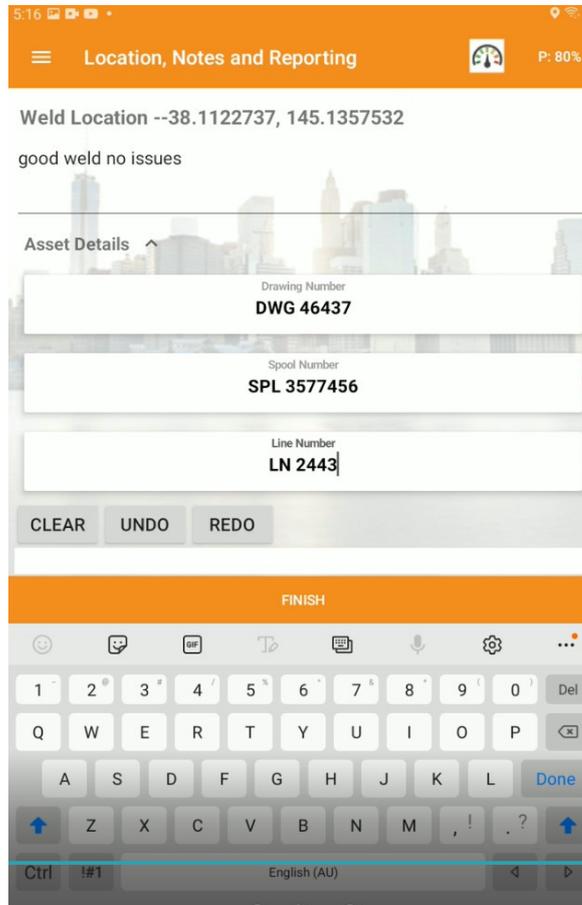
The unique number is made up from the following information.

Year	Month	Day	Hour	Minute	Part of user ID	FMS created from project
2022	03	28	13	37	8668	-

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 ;

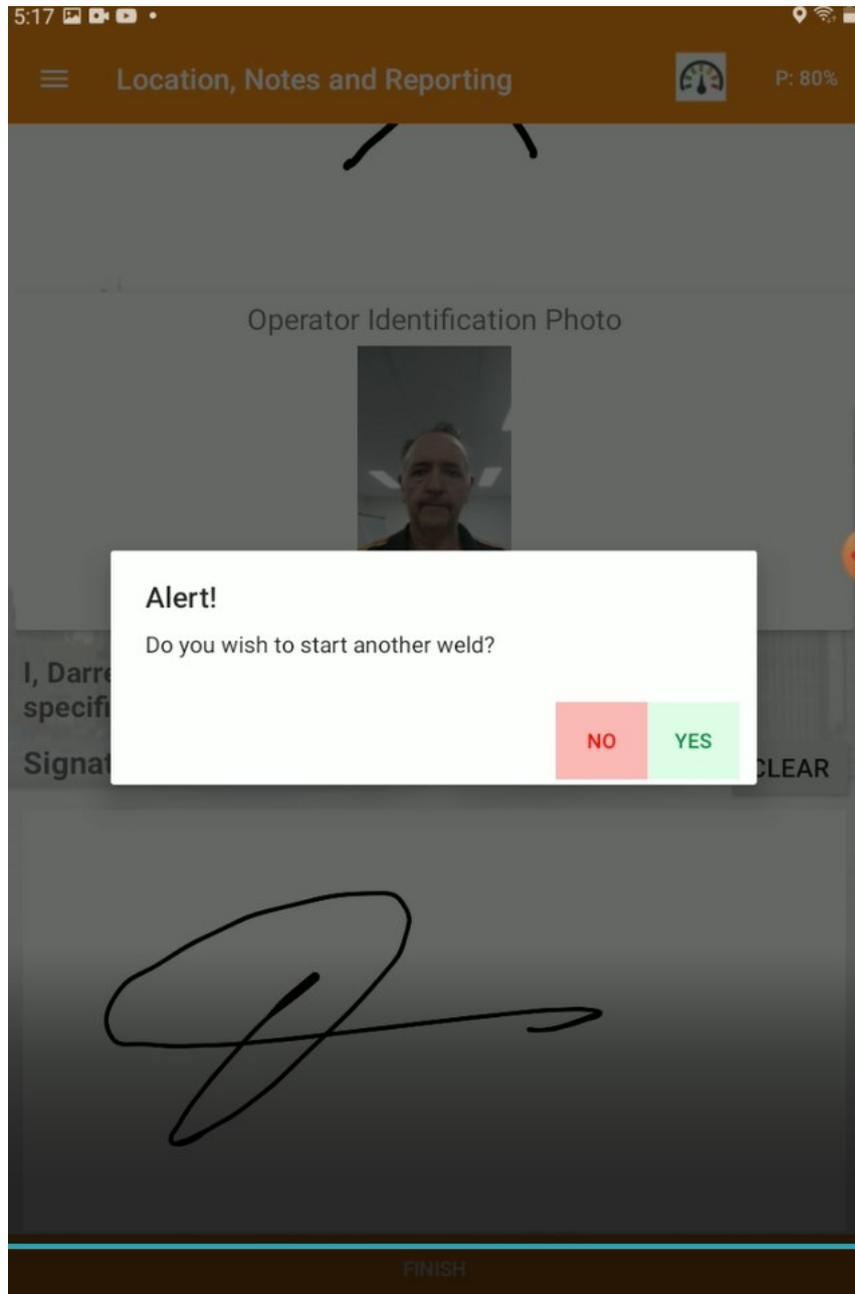
Sketch

Operator Identification Photo

And 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



**PEWeldBank**

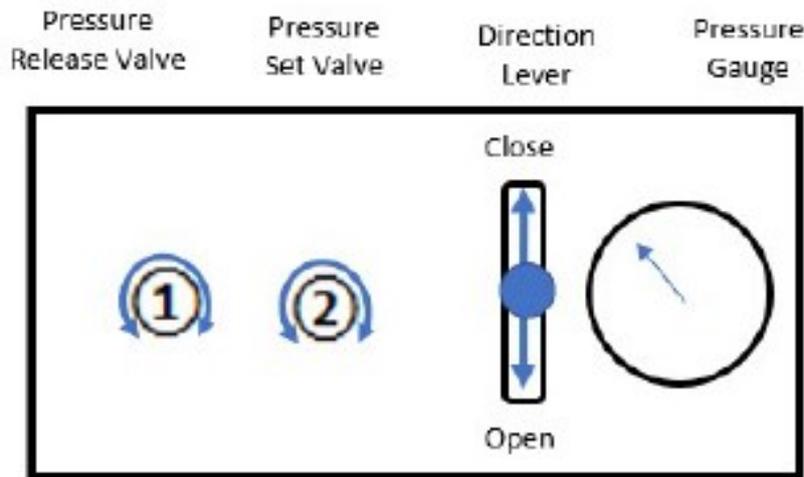
# **Basic Welding Machine Operating Procedure**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto: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

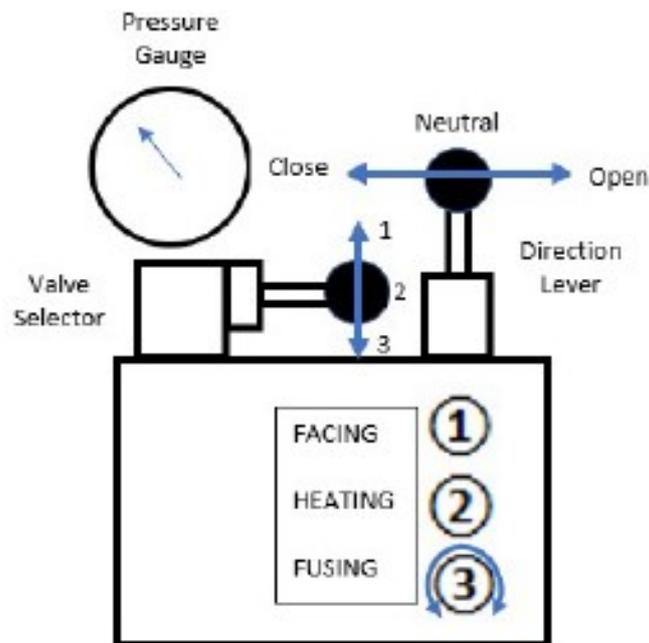
1. Close Pressure Release Valve ①
2. Close carriage and set Pressure Set Valve ② to XX bar
3. Press **[NEXT]** on PEWeldBank.
4. Open carriage this will drop pressure to drag or less.
5. Insert Heater Plate.
6. Bring Pipe up to heater plate to XX bar pressure and hold Direction Lever for several seconds.
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)



**PEWeldBank**

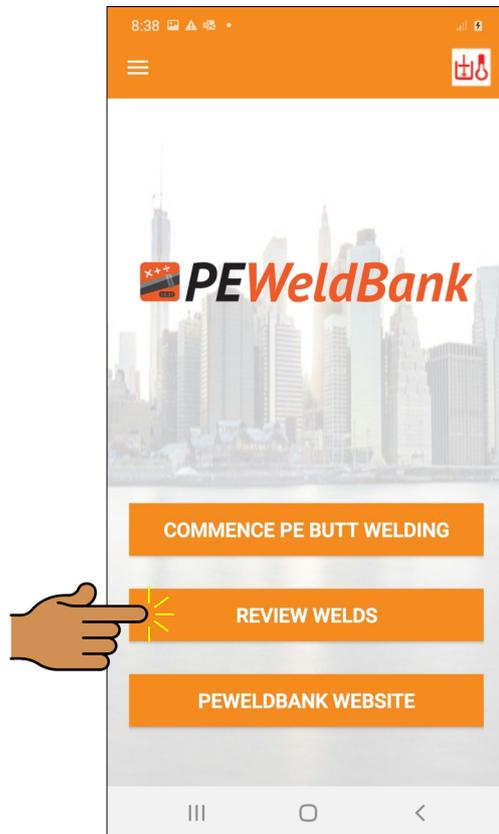
**Review welds  
and add second  
GPS location**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

## How to Review Welds on Smartphone or Tablet

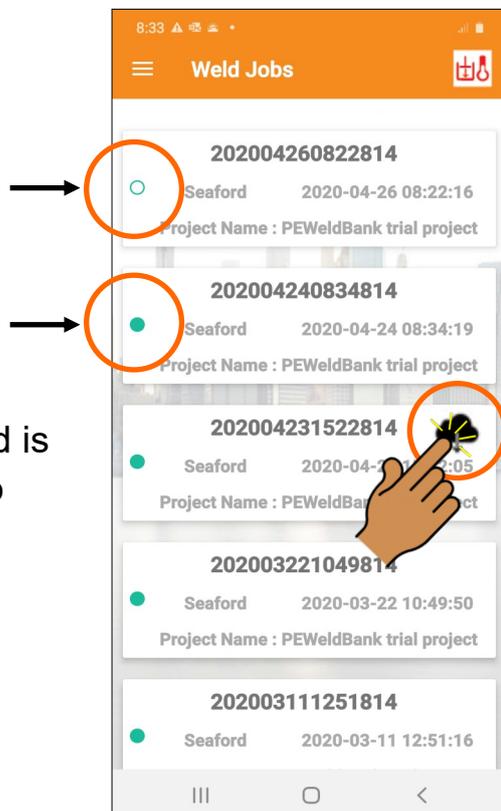
Go to the **HOME SCREEN**  
Click on **REVIEW WELDS**



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

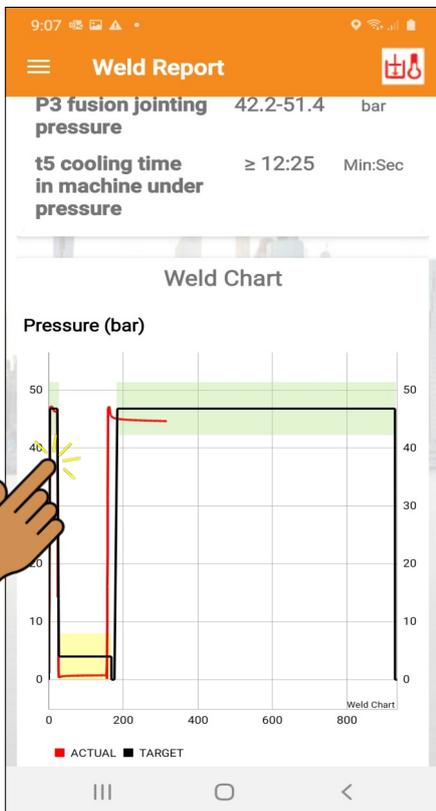
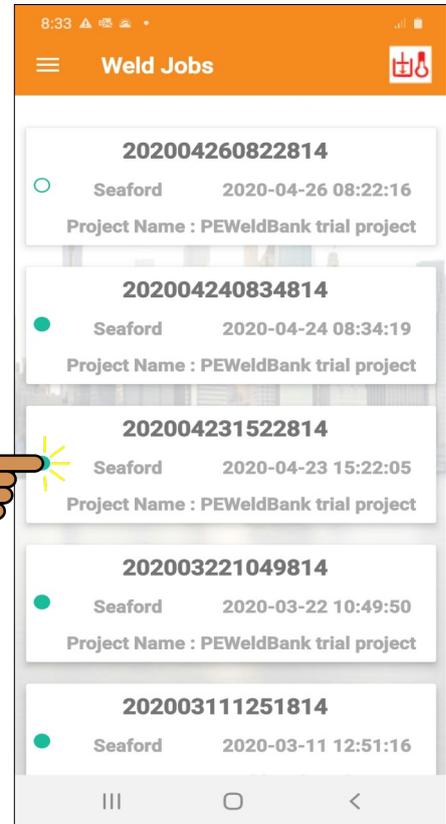
If you see a cloud icon this means this weld is only on the FMS but can be downloaded to the Tablet / Phone by clicking on icon ☁️



## How to Review Welds - Insert 2nd GPS Location

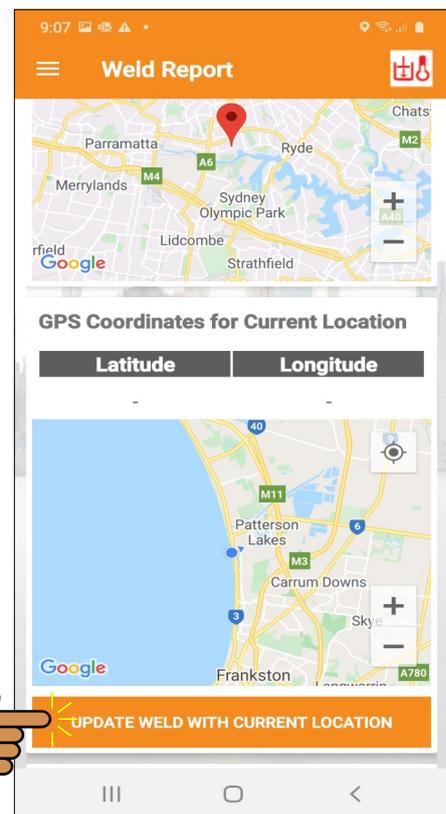
A valuable feature of **PEWeldBank** is the ability to add a 2nd GPS location. This is particularly useful where the installation location is different to where the welding was undertaken.

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.



**PEWeldBank**

# **Trouble shooting**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto: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 pressure	Connect orange cable to transducer and sensor and increase pressure, fast flashing should start within 10 seconds
	Orange cable connected to wrong port on sensor	Connect orange 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
Zero pressure reading on smartphone	Sensor not connected to pressure	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
	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 on heater plate controller is different to smartphone	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 calibration on a bi-annual basis (every 2 years). 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 a local testing / calibration laboratory to calibrate Pressure Transducer and Surface Temperature Probe, or return to GOPOLY for this service.



**PEWeldBank**

# **Appendix 1**

## **Connection of Hydraulic test point**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**

## Appendix A

### Ritmo Basic with steel case

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

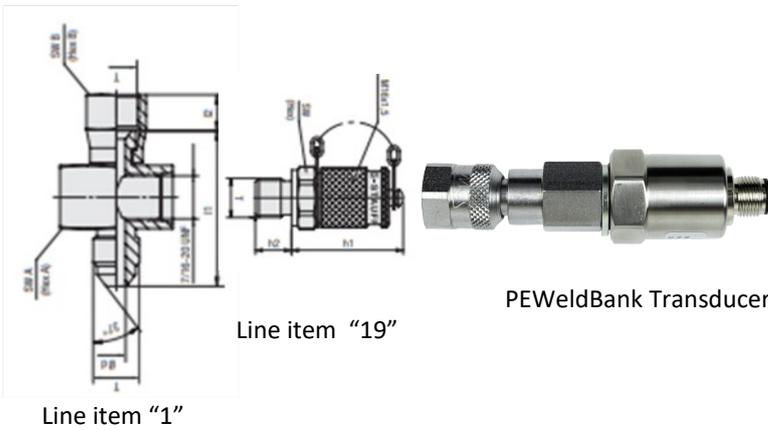
Remove hydraulic hose from control box

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 B

### Ritmo Basic with Plastic case

N.B. first ensure that 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"

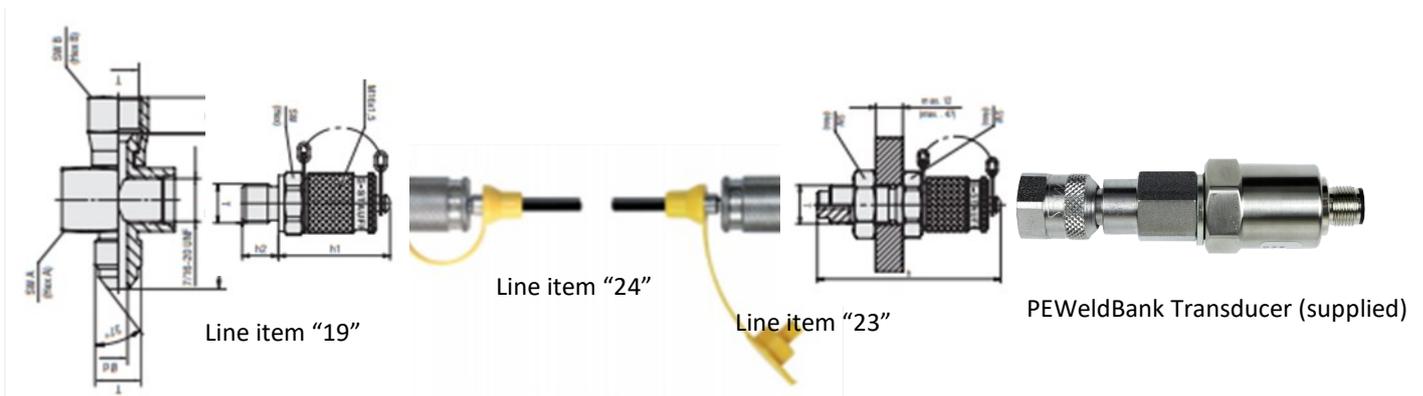
Fit hydraulic hose to item "1"

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"



Line item "1"

## Appendix C

### Dixon EHF 225 & 350

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

Remove male quick connect fitting from the control box

Fit item 26 and 25

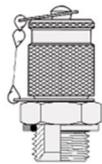
Refit quick connect fitting

Fit item 21 into tee

Fit PEWeldBank Transducer to item "21"



PEWeldBank Transducer (supplied)



Line item "21"



Line item "26"



Line item "25"

## Appendix D

### +GF+ TM Series

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

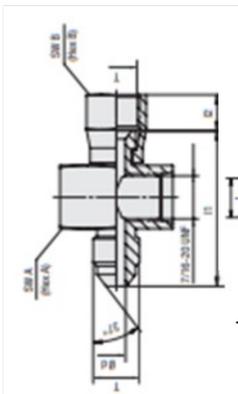
Remove male quick connect hydraulic coupling from control box

Fit TBC

Re-Fit male coupling to "TBC"

Fit "TBC"

Fit PEWeldBank Transducer to TBC



TBC



PEWeldBank Transducer (supplied)



TBC

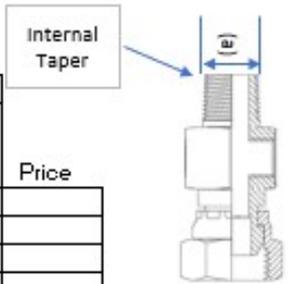


Please contact your local hydraulics company or PEWeldBank reseller for fittings.

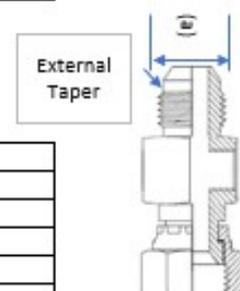
The following is a guide, we will add to this as more information becomes available.

Hydraulic Test Port Tee Identification

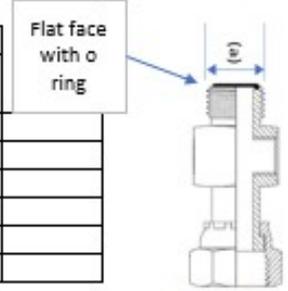
"BSPT" Male x BSPP Female Swivel BSPP Test Port Tee				
Line No	Part Number	Description	OD mm (a)	Price
1	BTM-BSF-BPF-0404	1/4 BSPT M/F Test 1/8 BSPP	13.03±	
2	BTM-BSF-BPF-0606	3/8 BSPT M/F Test 1/8 BSPP	16.50±	
3	BTM-BSF-BPF-0808	1/2 BSPT M/F Test 1/8 BSPP	20.59±	
4	BTM-BSF-BPF-1212	3/4 BSPT M/F Test 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-M0314	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
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**PEWeldBank**

# **Appendix 2**

## **Updating Sensor Firmware**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto:Info@PEWeldBank.com)**



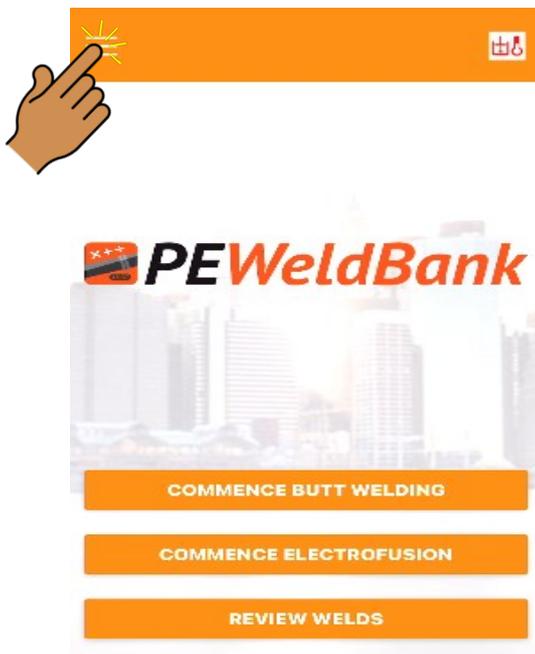
## Updating Sensors Firmware ONLY VIA iOS (apple)

N.B. only use iOS device to update Firmware **NOT** Android

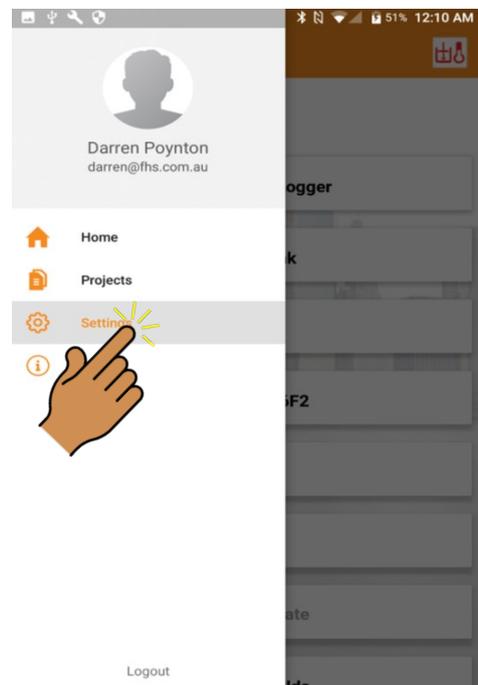
Temperature Sensors V1.0.4 and Pressure Sensors V1.3.7 or earlier cannot be updated and must be returned to GoPolly for update.

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

1. Click **Dropdown Menu**

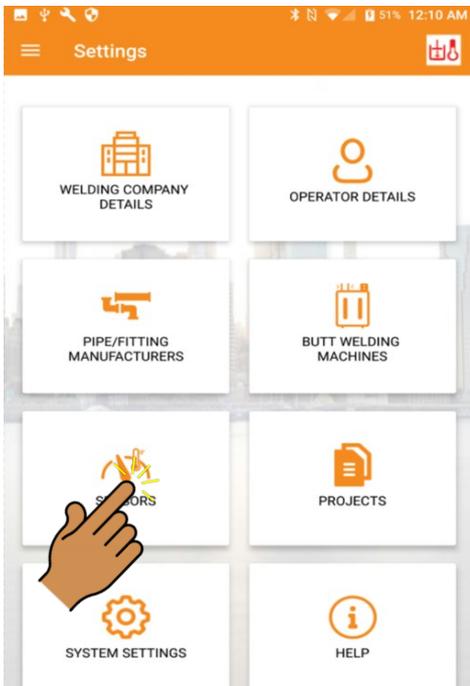


2. Click **Settings**

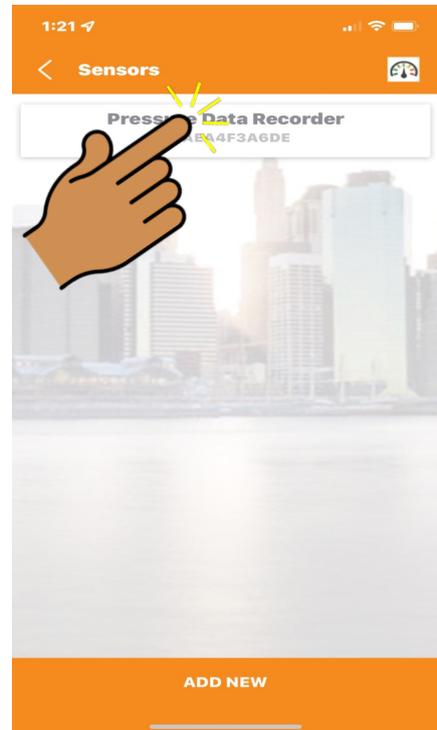


## Updating Sensors Firmware

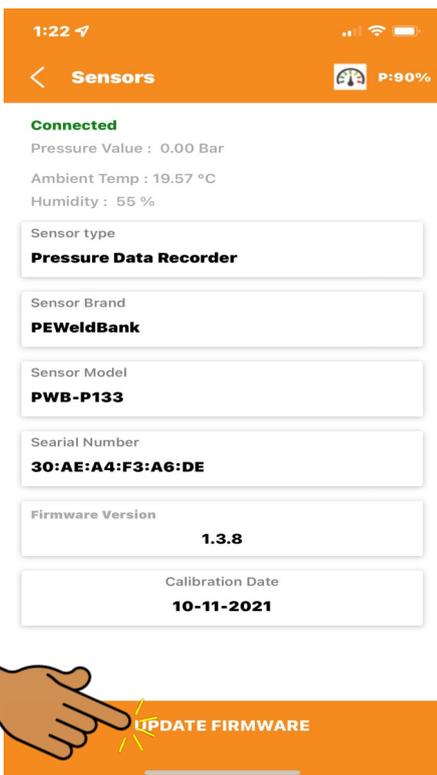
### 3. Click Sensors



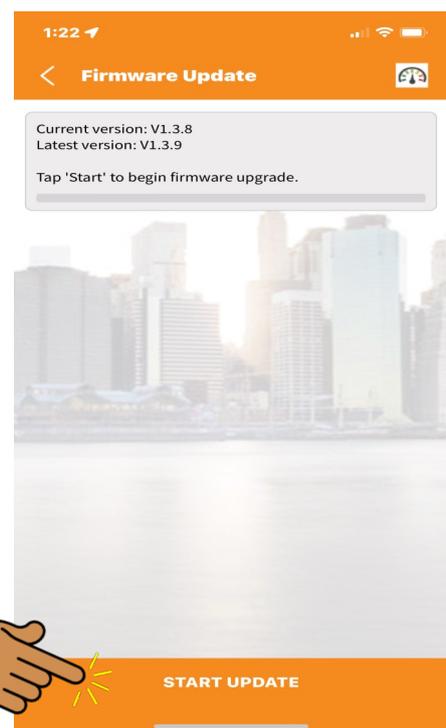
### 4. Click sensor



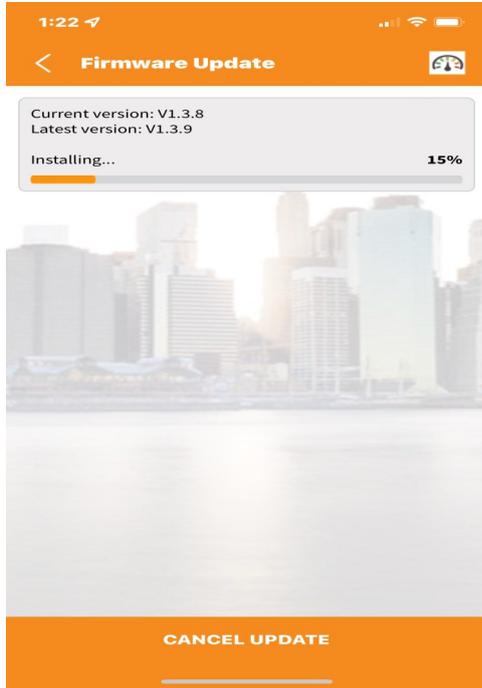
### 5 Click Update Firmware



### 6 Click Start Update

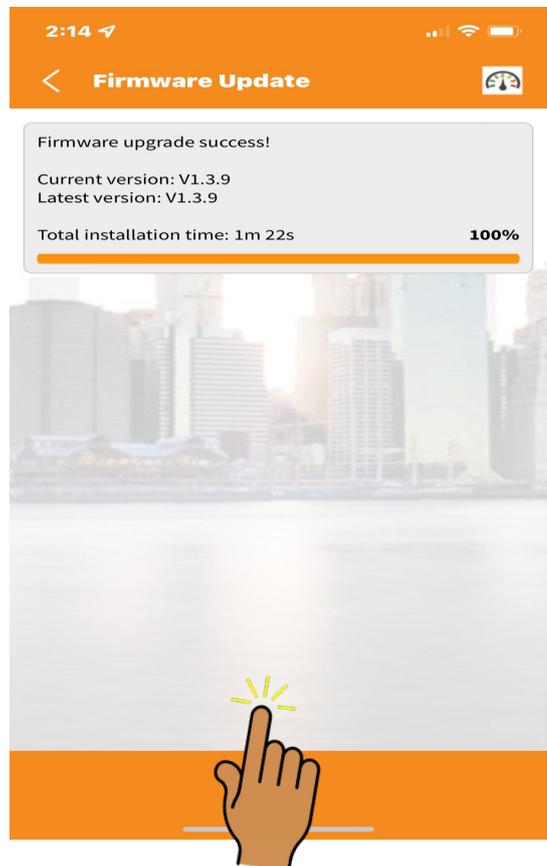
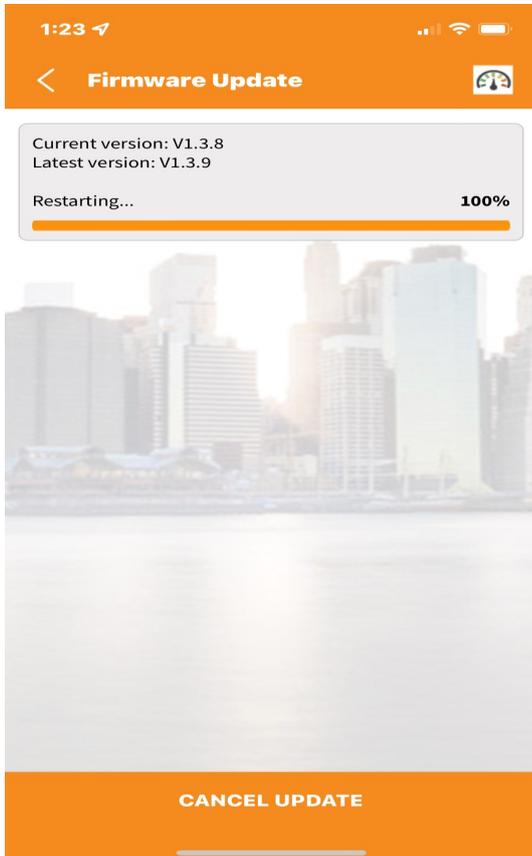


## Updating Sensor Firmware



7. Firmware updated

5 Click **Finish**





**PEWeldBank**

**Appendix 3**  
**Connection to Heater**  
**Plate via PT100 internal**  
**sensor**

**[www.PEWeldBank.com](http://www.PEWeldBank.com)**

**[Info@PEWeldBank.com](mailto: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



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 Barrell 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)

**For further information:**

Please contact PEWeldBank:

Email: [info@PEWeldBank.com](mailto: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](http://www.peweldbank.com/reseller)