



User Manual 2023



Version 9 7 Jan 2023

www.PEWeldBank.com

Info@PEWeldBank.com



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Fusion Management System (FMS)

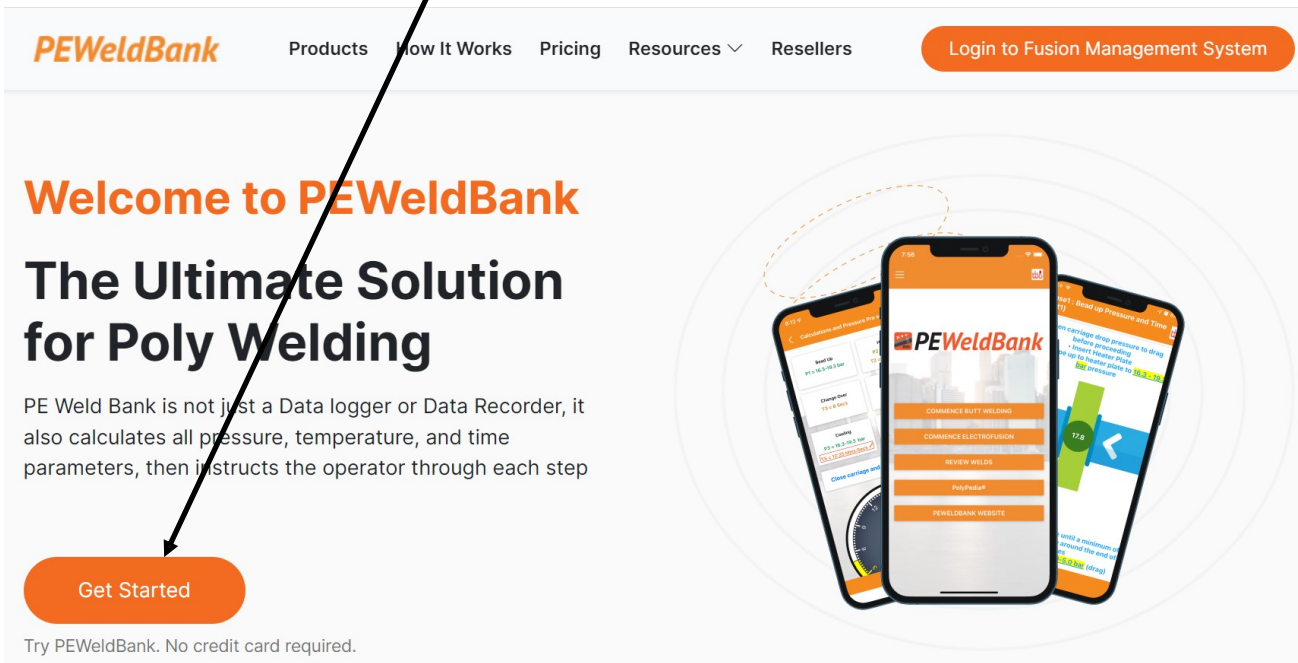
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How to Subscribe to **PEWeldBank** Fusion Management System (FMS) on your PC or Laptop

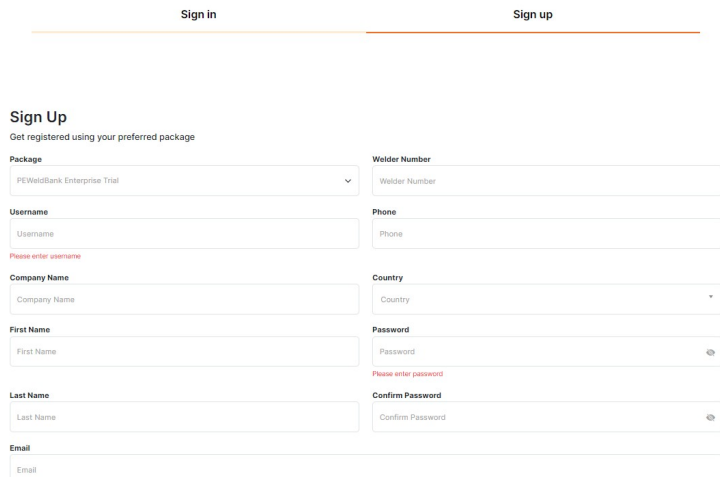
 You must subscribe to “PEWeldBank Fusion Logger” if you want to use sensors

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



The image shows the PEWeldBank website homepage. At the top, there is a navigation bar with the logo, links for Products, How It Works, Pricing, Resources, and Resellers, and a 'Login to Fusion Management System' button. The main content area features a large heading 'Welcome to PEWeldBank' and 'The Ultimate Solution for Poly Welding'. Below this, a paragraph describes the system as a data logger/recorder that calculates pressure, temperature, and time parameters. A 'Get Started' button is prominently displayed, with an arrow pointing to it from the second step of the instructions. To the right, there is an image of three smartphones displaying the app interface.

3. Click “Sign up”



The image shows the 'Sign Up' form on the PEWeldBank website. The form is titled 'Sign Up' and includes the subtext 'Get registered using your preferred package'. It contains several input fields for user registration:

- Package:** A dropdown menu with 'PEWeldBank Enterprise Trial' selected.
- Welder Number:** A text input field.
- Username:** A text input field with a placeholder 'Username'.
- Phone:** A text input field with a placeholder 'Phone'.
- Company Name:** A text input field with a placeholder 'Company Name'.
- Country:** A dropdown menu with 'Country' selected.
- First Name:** A text input field with a placeholder 'First Name'.
- Password:** A text input field with a placeholder 'Password' and a 'Please enter password' error message.
- Confirm Password:** A text input field with a placeholder 'Confirm Password' and a 'Confirm Password' error message.
- Email:** A text input field with a placeholder 'Email'.

Subscription Rates

Go to **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.

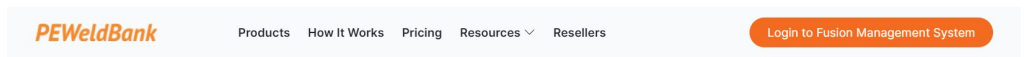
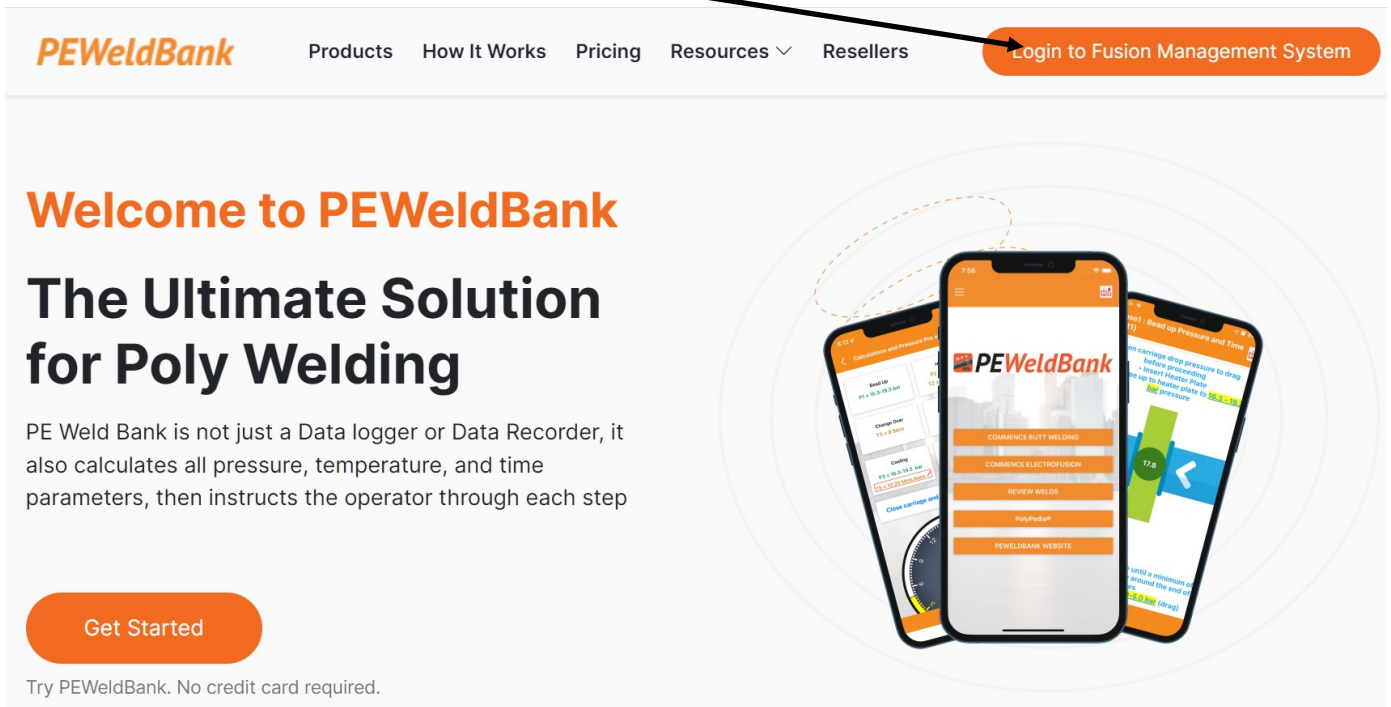
*Australian Dollars

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

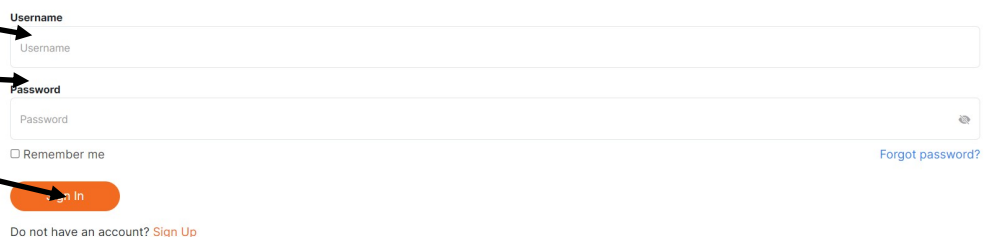
3. Login:

User ID

Password

Login

Sign In

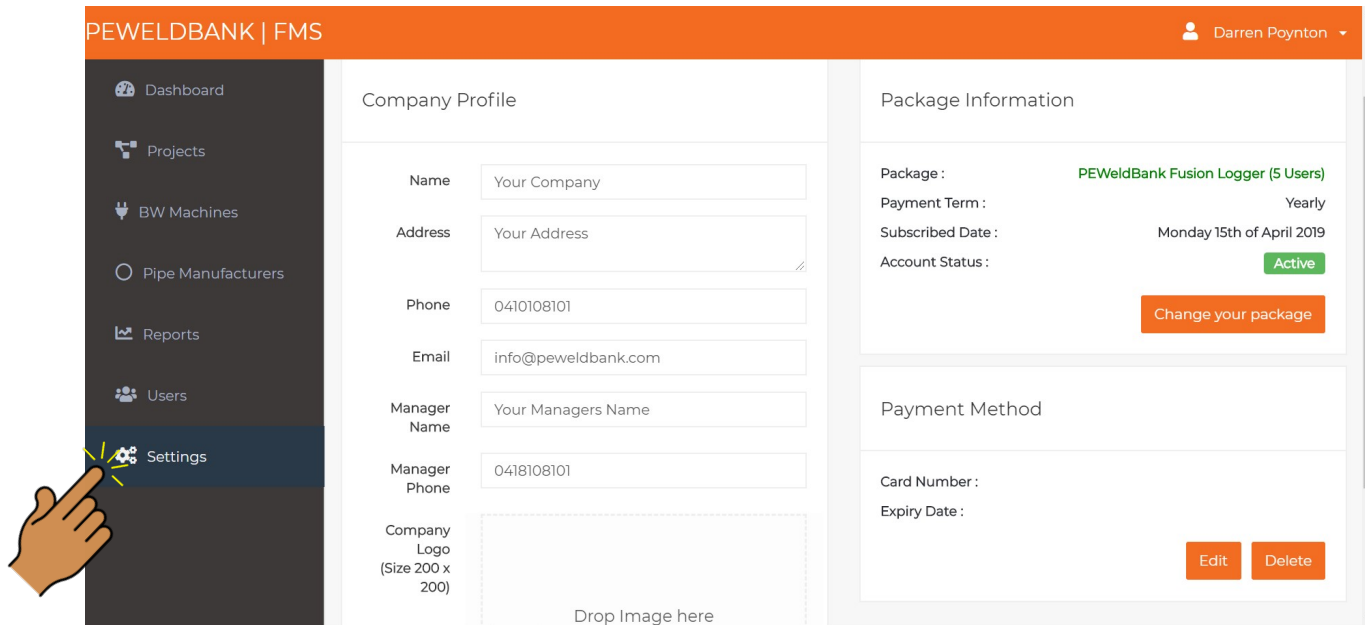


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How to set up Company Details

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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Settings

Company Profile

Name:

Address:

Phone:

Email:

Manager Name:

Manager Phone:

Company Logo (Size 200 x 200):

Drop Image here

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](#)

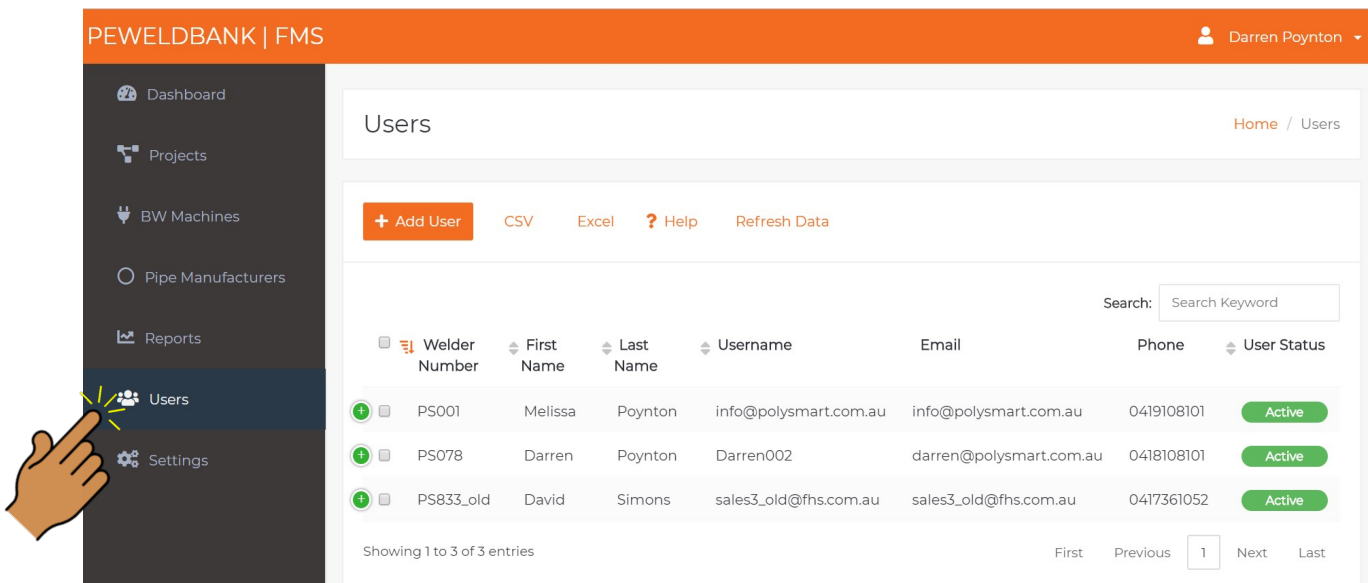
Note there are 3 levels of users access;

- **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

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

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

Search:

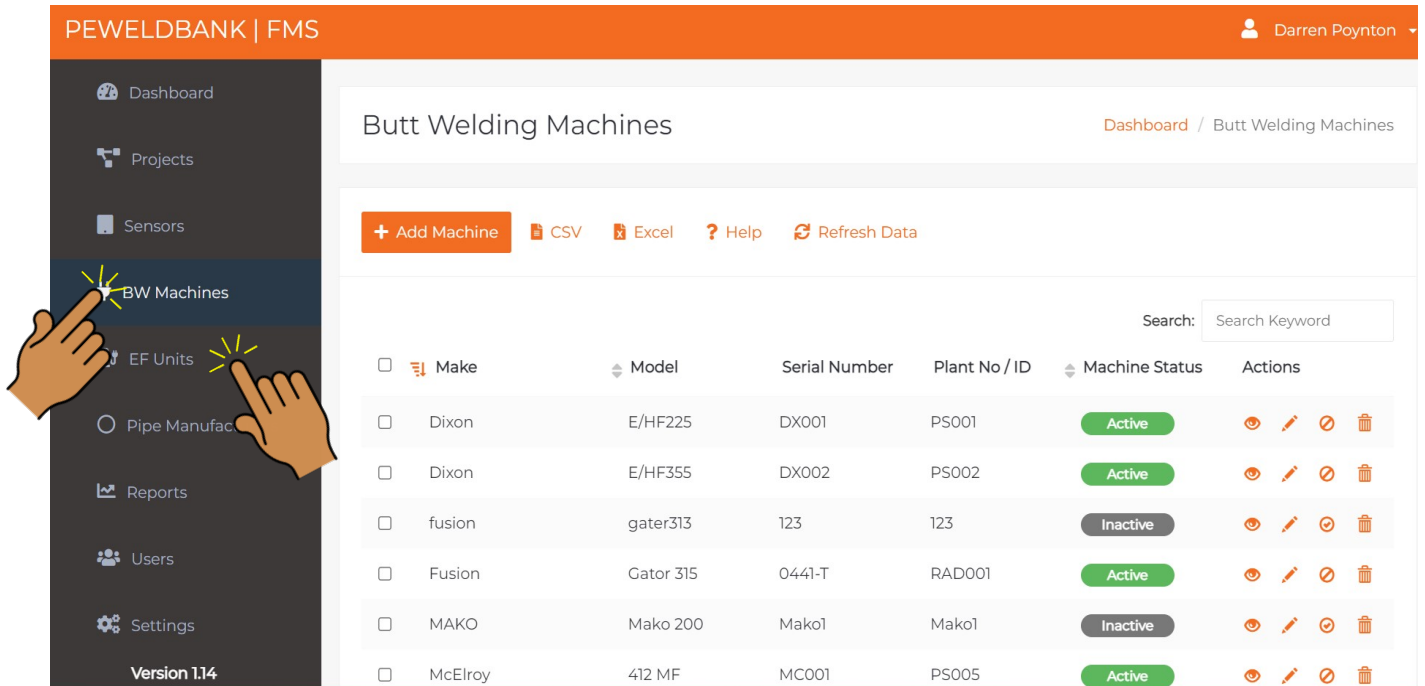
	Welder Number	First Name	Last Name	Username	Email	Phone	User Status
	PS001	Melissa	Poynton	info@polysmart.com.au	info@polysmart.com.au	0419108101	Active
	PS078	Darren	Poynton	Darren002	darren@polysmart.com.au	0418108101	Active
	PS833_old	David	Simons	sales3_old@fhs.com.au	sales3_old@fhs.com.au	0417361052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

Showing 1 to 3 of 3 entries First Previous **1** 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:

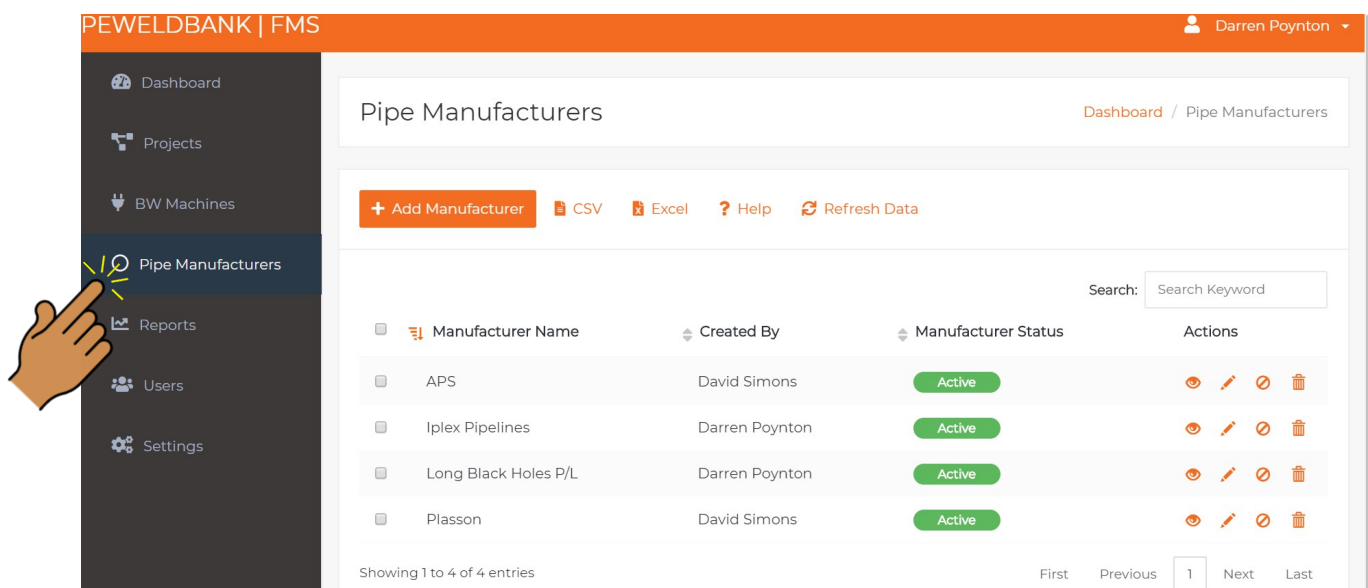
<input type="checkbox"/> Make	Model	Serial Number	Plant No / ID	Machine Status	Actions
<input type="checkbox"/> Dixon	E/HF225	DX001	PS001	Active	
<input type="checkbox"/> Dixon	E/HF355	DX002	PS002	Active	
<input type="checkbox"/> fusion	gater313	123	123	Inactive	
<input type="checkbox"/> Fusion	Gator 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 1 Next Last

Set up Projects / Jobs

Step 5, Click on Projects

Set Up Project Details

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- Dashboard
- Projects**
- Sensors
- BW Machines
- EF Units
- Pipe Manufacturers
- Reports
- Users
- Settings

Projects

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
- Projects
- Sensors**
- BW Machines
- EF Units
- Pipe Manufacturers
- Reports
- Users
- Settings

Sensors

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	



FMS Reporting system


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Reports

There are multiple reports and sort functions available

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Dashboard

Projects

Sensors

BW Insulation

EF Units

Pipe Manufacturers

Report

Settings

Welding Reports

Machine Type

Project

Machine

Welder

Search

Weld Status

Welding Duration

Tags

Short Report

Welding Report

Back to Project

Email Report

Help

Refresh Data

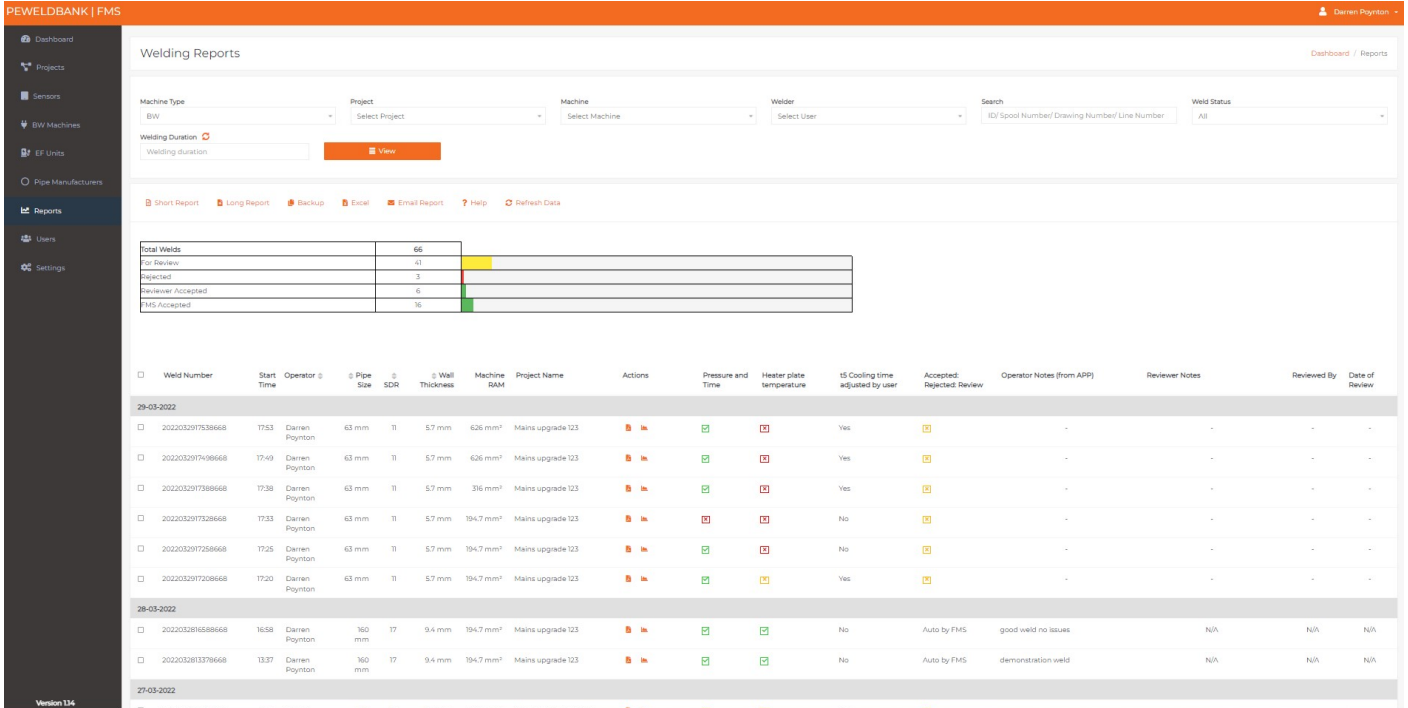
Download Reports

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																
202202230108016	76	12:32	Poly Welder	110 mm	21	5.2 mm	194.7 mm ²	SoCal Trials					No			
202202230108016	75	12:30	Poly Welder	110 mm	21	5.2 mm	194.7 mm ²	SoCal Trials					No			
30-11-2022																
20220130033988816	DJP49	13:41	Darren Poynton	160 mm	17	9.4 mm	194.7 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.



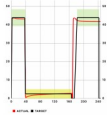
GoPoly Pty Ltd
PO BOX 509
Patterson Lakes
VIC 3197
darren@gopoly.com.au
0418108101

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	
P1 bead-up pressure	39.3-48.4	43.1-43.8	bar
T3 bead-up size	1.44	39.00	Seconds
P2 heat soak pressure	8.0-8.0	8.5-8.7	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
P3 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)				
Material	Manufacturer	Type	Shape	Wt	SDR
Spigot 1	Ipflex Pipelines	PE100	Pipe	160	17
Spigot 2	Ipflex Pipelines	PE100	Pipe	160	17

Machine Details					
Brand	Model	Ram Size	Serial No.	Calibration Date	
Ritmo	Basic 160	194.7 mm ³	135000013C 135000013D 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	
145.13582	-38.112098	

Heater Plate Target (° C)	215-235
Zone 1	219
Zone 2	222
Zone 3	225
Zone 4	224
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.

[Signature]

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

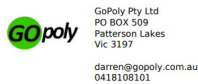
weld number 2022016094485977

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	202203291749868	17:49	Darren Poynton	63 mm	11	12341234
29-03-2022	202203291738868	17:38	Darren Poynton	63 mm	11	12341234
29-03-2022	202203291732868	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	202203281378868	13:37	Darren Poynton	160 mm	17	12341234
27-03-2022	2022032712018822	12:01	Darren Poynton	160 mm	17	P001
27-03-2022	2022032708528977	08:53	Darren Poynton	160 mm	17	test1
25-03-2022	20220325090485977	09:04	Darren Poynton	160 mm	17	test1
22-03-2022	20220322101785977	10:37	Darren Poynton	160 mm	17	test1
21-03-2022	20220321201285977	20:23	Darren Poynton	160 mm	17	test1
18-03-2022	2022031813485977	13:17	Darren Poynton	160 mm	17	test1
16-03-2022	2022031611385977	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	20220307133885977	13:37	Darren Poynton	160 mm	17	test1
07-03-2022	20220307132485977	13:25	Darren Poynton	160 mm	17	test1
04-03-2022	20220304103985977	10:39	Darren Poynton	160 mm	17	test1
04-03-2022	20220304102685977	10:26	Darren Poynton	160 mm	17	test1
04-03-2022	20220304101085977	10:10	Darren Poynton	160 mm	17	test1
04-03-2022	20220304095885977	09:58	Darren Poynton	160 mm	17	test1
04-03-2022	20220304091185977	09:11	Darren Poynton	160 mm	17	test1
03-03-2022	2022030320285977	23:02	Darren Poynton	160 mm	17	test1



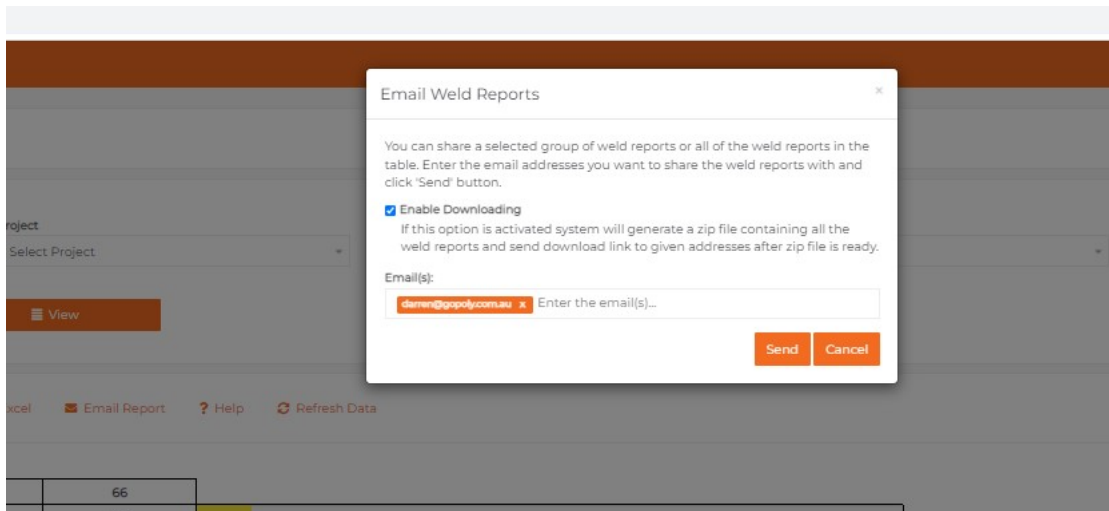
PEWeldBank Weld Summary (Long)

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	626 mm²	12341234
29-03-2022	202203291749868	17:49	Darren Poynton	63 mm	11	5.7 mm	626 mm²	12341234
29-03-2022	202203291738868	17:38	Darren Poynton	63 mm	11	5.7 mm	316 mm²	12341234
29-03-2022	202203291732868	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	202203281378868	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	2022032708528977	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	20220322101785977	10:37	Darren Poynton	160 mm	17	10.0 mm	194.7 mm²	test1
21-03-2022	20220321201285977	20:23	Darren Poynton	160 mm	17	9.4 mm	194.7 mm²	test1
18-03-2022	2022031813485977	13:17	Darren Poynton	160 mm	17	10.0 mm	194.7 mm²	test1
16-03-2022	2022031611385977	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

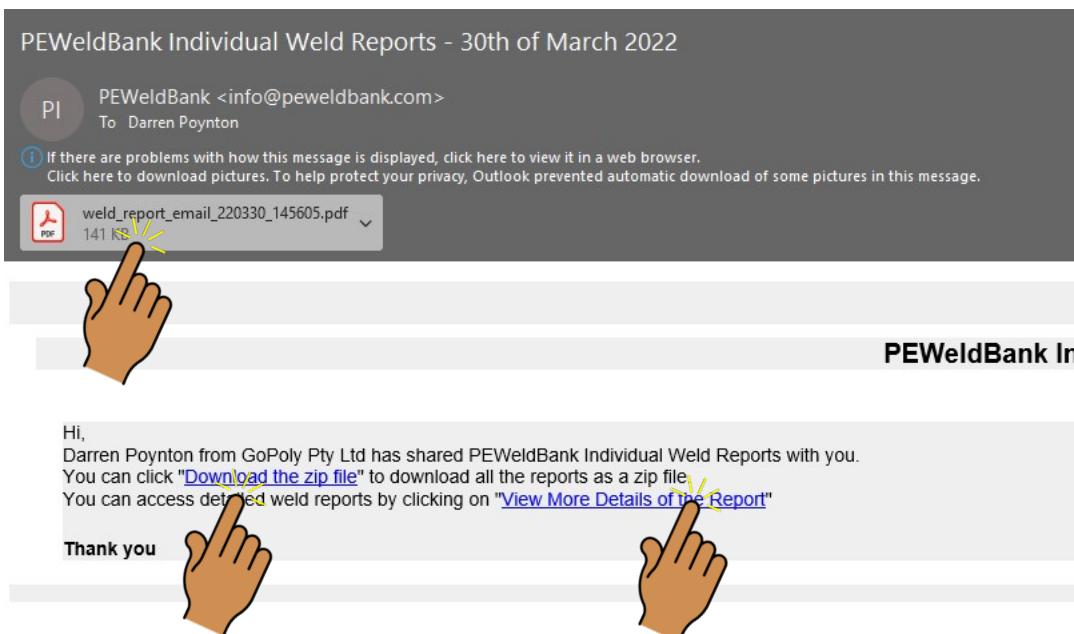
Autosave [1:11:11] Built: welding_records_backup_20240224_143017 - Protected View - Repaired - Search (Alt+F3)										Daren Payson																			
File Home Insert Draw Page Layout Formulas Data Review View Help										10 Comments 50																			
A1										Date																			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	
1	Date	Weld Num	Start Time	Ambient	T2 Result	Cor P1	Min Re P1	Max Re P1	Min Ac P1	Max Ac P1	T1 Requir	T1 Actual	P2 Min Re P2	Max Re P2	Min Ac P2	Max Ac P2	T2 Requir	T2 Actual	T3 Requir	T3 Actual	T4 Requir	T4 Actual	P3 Min Re P3	Max Re P3	Min Ac P3	Max Ac P3	T5 Requir	T5 Actual	P4 Min Re P4
2	29-03-2022	2022032917353	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	2.3	
3	29-03-2022	2022032917149	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	
4	29-03-2022	202203291738	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	
5	29-03-2022	202203291733	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	
6	29-03-2022	2022032917125	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	
7	29-03-2022	2022032917120	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	
8	28-03-2022	202203281658	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	
9	28-03-2022	202203281337	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	
10	27-03-2022	2022032711201	-	N/A	39.2	48.4	-	-	1	-	0	5	-	-	113	141	-	8	-	0	0	39.2	48.4	-	-	15	-	10.2	
11	27-03-2022	202203270853	-	N/A	36.2	45.4	-	-	1	-	0	2	-	-	113	141	-	8	-	0	0	36.2	45.4	-	-	12:25	-	7.2	
12	25-03-2022	202203250904	-	N/A	39.2	48.4	-	-	1	-	0	5	-	-	112	141	-	8	-	0	0	39.2	48.4	-	-	12:25	-	10.2	
13	22-03-2022	202203221037	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	
14	21-03-2022	202203212023	-	N/A	44	56	-	-	0	-	0	5	-	-	30	30	-	8	-	0	0	44	56	-	-	20	-	0	
15	18-03-2022	2022031811317	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	
16	16-03-2022	2022031611115	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	32.7	45.2	01:00	01:00	10.2	
17	16-03-2022	202203160947	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	
18	15-03-2022	202203150656	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	
19	10-03-2022	2022031011428	-	N/A	26.4	33.5	-	-	0	-	0	5	-	-	10	10	-	8	-	0	0	26.4	33.5	-	-	5	-	0	
20	10-03-2022	202203101420	-	N/A	34.2	43.4	-	-	1	-	0	0	-	-	112	141	-	8	-	0	0	34.2	43.4	-	-	55:00	-	5.2	
21	09-03-2022	202203091305	-	N/A	9.8	11.9	-	-	1	-	0	2	-	-	132	165	-	8	-	0	0	9.8	11.9	-	-	10	-	3.2	
22	08-03-2022	202203081120	-	N/A	9.8	11.9	-	-	1	-	0	2	-	-	132	165	-	8	-	0	0	9.8	11.9	-	-	10	-	3.2	
23	07-03-2022	202203071337	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	
24	07-03-2022	202203071325	-	N/A	43.3	52.9	-	-	1	-	0	7	-	-	120	150	-	8	-	0	0	43.3	52.9	-	-	10	-	12.5	
25	04-03-2022	202203041039	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	
26	04-03-2022	202203041026	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	
27	04-03-2022	202203041010	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	
28	04-03-2022	202203040958	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	
29	04-03-2022	202203040911	-	N/A	41.3	50.9	-	-	1	-	0	5	-	-	120	150	-	8	-	0	0	41.3	50.9	-	-	10	-	10.5	
30	03-03-2022	202203032302	-	N/A	40.5	49.5	-	-	0	-	0	5	-	-	10	10	-	8	-	0	0	40.5	49.5	-	-	10	-	0	
31	03-03-2022	202203032200	-	N/A	40.5	49.5	-	-	0	-	0	5	-	-	10	10	-	8	-	0	0	40.5	49.5	-	-	10	-	0	
32	02-03-2022	202203021500	-	N/A	70.6	100.4	-	-	2	-	0	8	-	-	100	120	-	8	-	0	0	70.6	100.4	-	-	10	-	11.4	
33	02-03-2022	202203021451	-	N/A	70.6	100.4	-	-	2	-	0	8	-	-	100	120	-	8	-	0	0	70.6	100.4	-	-	10	-	11.4	
34	02-03-2022	202203021457	-	N/A	67.6	97.2	-	-	2	-	0	6	-	-	100	120	-	8	-	0	0	67.6	97.2	-	-	10	-	11.4	

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

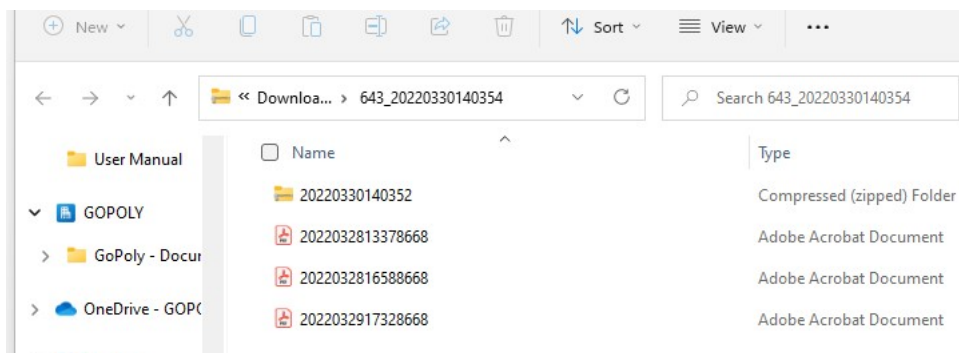
The first one is a summary.

GoPoly
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
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

pe weldbank.com/report/shared-weld-report/IAN9W0hkXhsyceVSlonTOhYQISU80Uswp3Nyp8eDmEg

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	 



PEWeldBank

Smartphone / Tablet User Guide

www.PEWeldBank.com

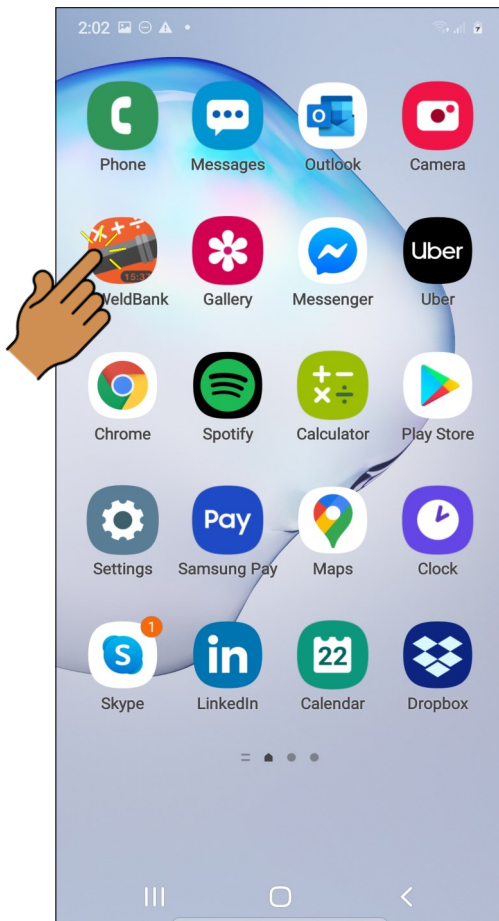
Info@PEWeldBank.com

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

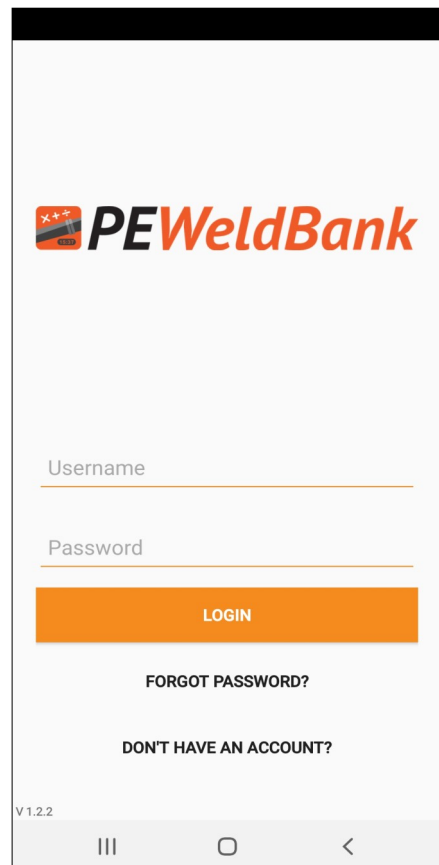
Go to search on Google Play or Apple App store enter “peweldbank”



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.

 The login screen for the PEWeldBank app. It features the app's logo at the top. Below the logo are two input fields: "Username" and "Password". Under the "Password" field is an orange "LOGIN" button. Below the button are two links: "FORGOT PASSWORD?" and "DON'T HAVE AN ACCOUNT?". At the bottom left, the version number "V 1.2.2" is displayed. The screen has a light gray background and a white border.

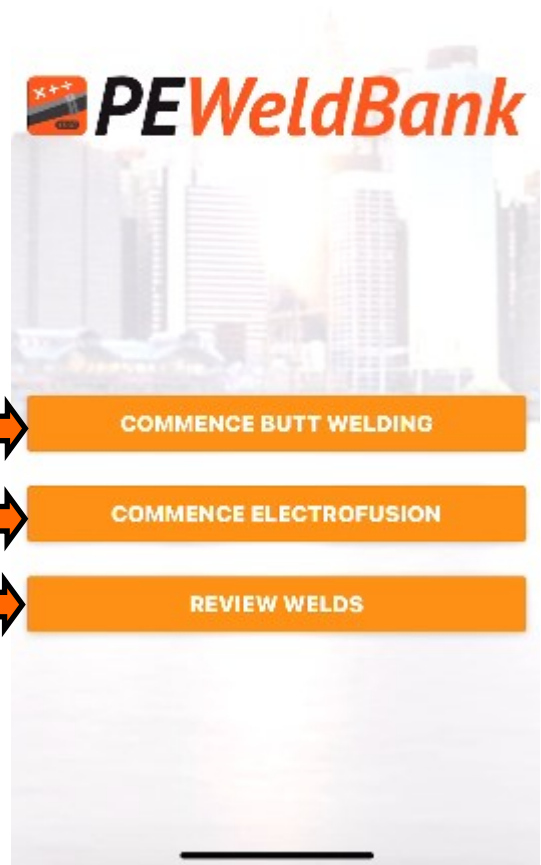
Home Screen

Operation is very easy to access via the Home Screen

Drop Down Menu



Tap here to start a Butt weld



Tap here to start an Electrofusion weld

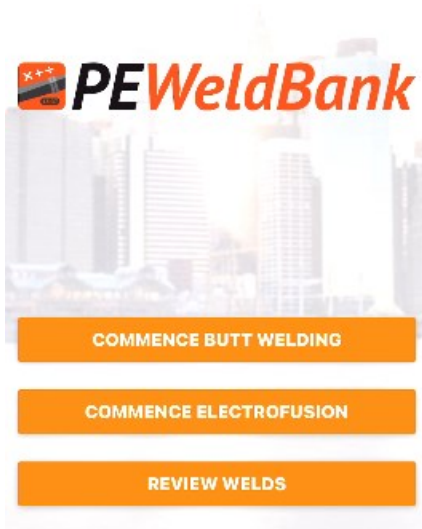


Tap here to review weld

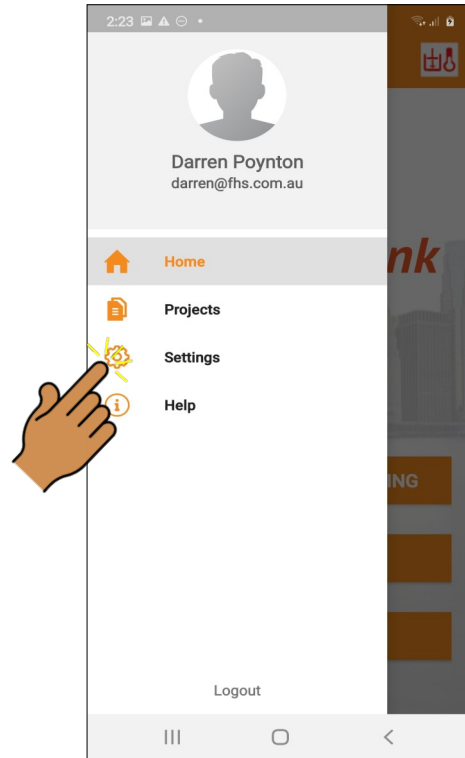


Smartphone / Tablet - Default System Settings

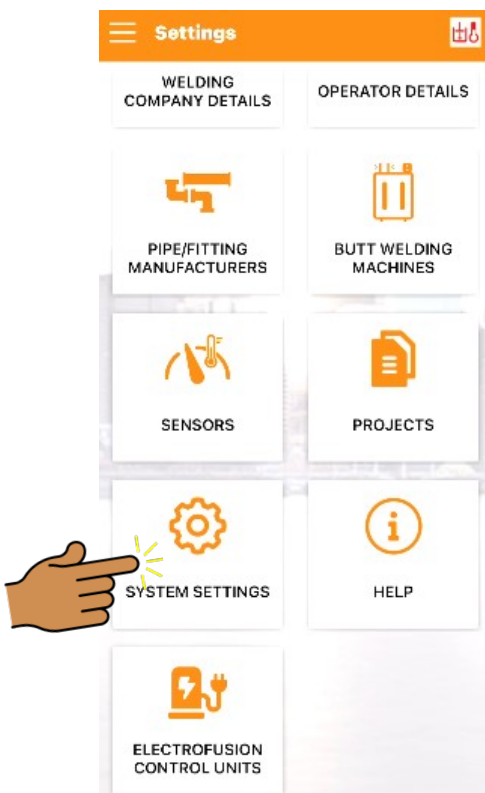
Click on dropdown menu



Click on menu item



Select **System Settings** to Edit Settings

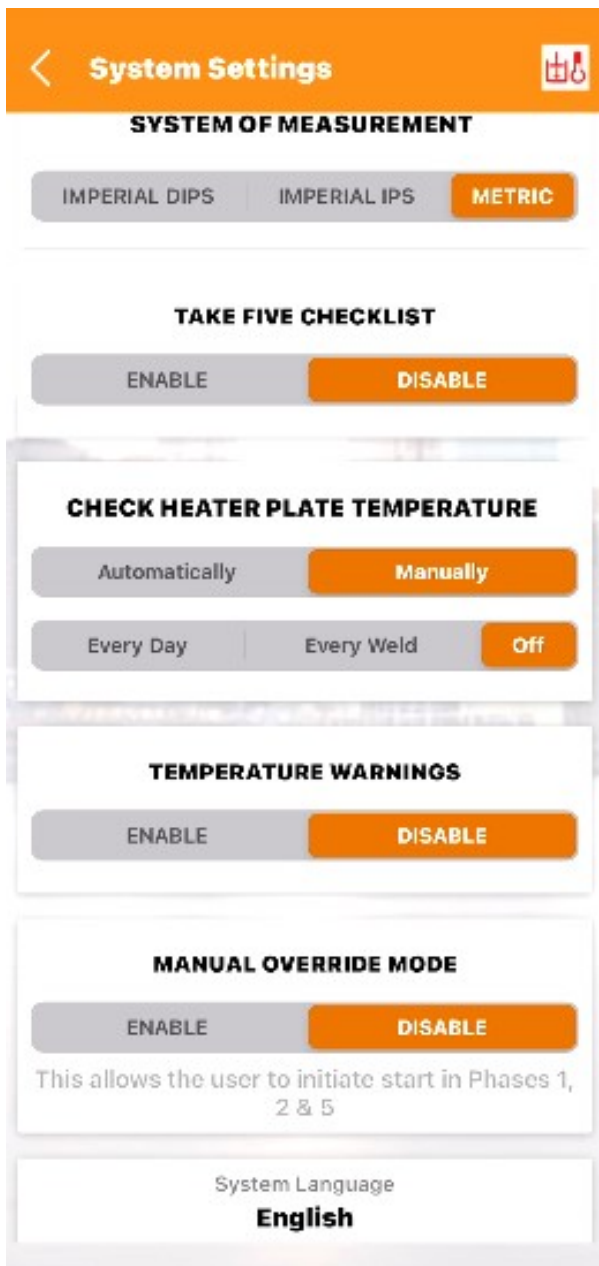


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Smartphone / Tablet - Default System Settings

Select your preferred defaults before welding

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



System Settings

SYSTEM OF MEASUREMENT

IMPERIAL DIPS IMPERIAL IPS **METRIC**

TAKE FIVE CHECKLIST

ENABLE **DISABLE**

CHECK HEATER PLATE TEMPERATURE

Automatically **Manually**

Every Day Every Weld **Off**

TEMPERATURE WARNINGS

ENABLE **DISABLE**

MANUAL OVERRIDE MODE

ENABLE **DISABLE**

This allows the user to initiate start in Phases 1, 2 & 5

System Language
English

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

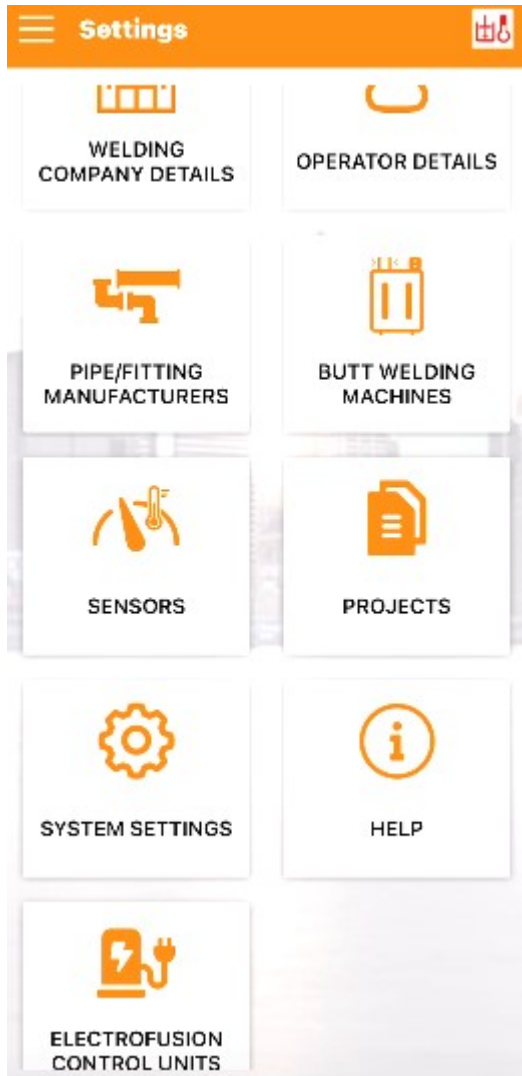
MANUAL OVERRIDE MODE

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

SYSTEM LANGUAGE

Enables user to choose different languages

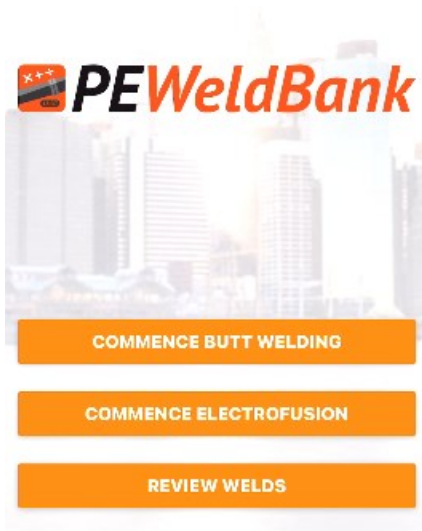
Smartphone / Tablet - Settings



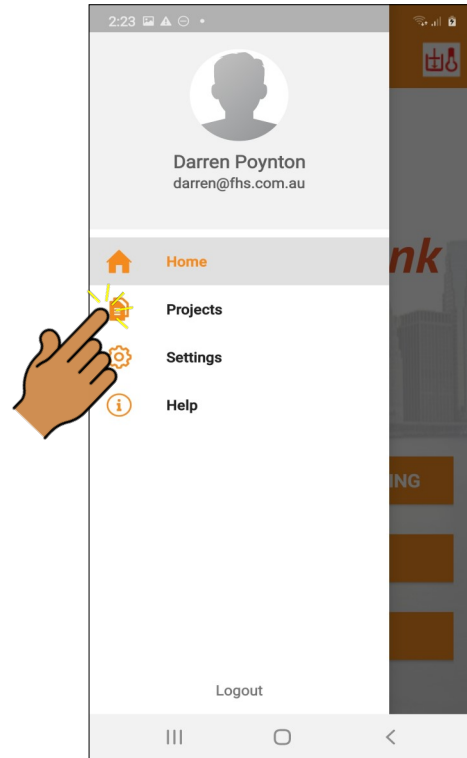
All of these options except for Sensors, System Settings and some of the Operator Details can also be edited via the FMS

Smartphone / Tablet Menu Screens

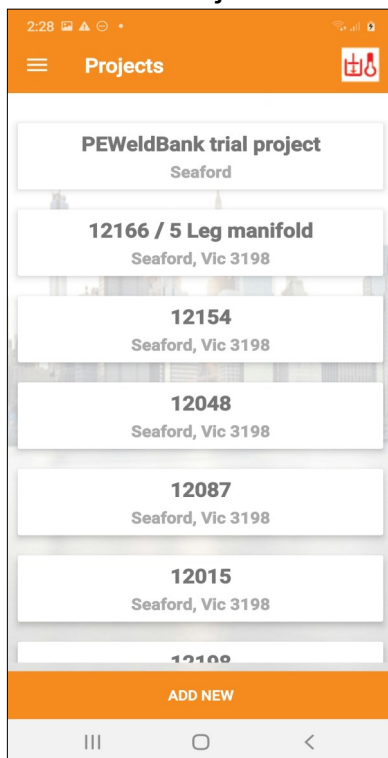
Click on dropdown menu



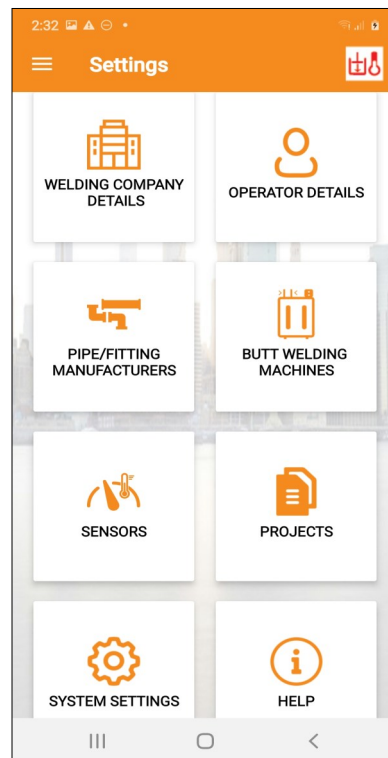
Click on menu item



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



Select **Settings** to Edit Settings



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Connection to Hydraulic circuit

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Fitting Hydraulic Transmitter / Transducer to Machine



Hydraulic Connection

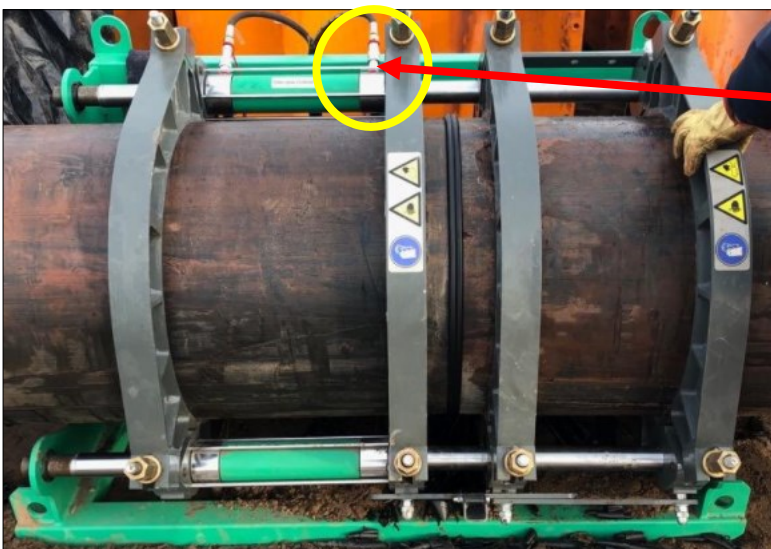


Many machines have a test port already fitted.

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)

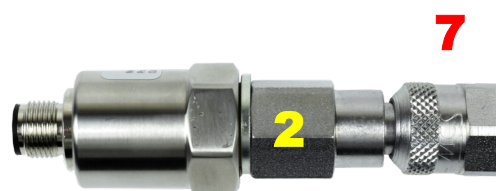
Pressure Sensor Components

- 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.





Connection to Heater Plate

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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



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Pairing Sensors to Phone or Tablet

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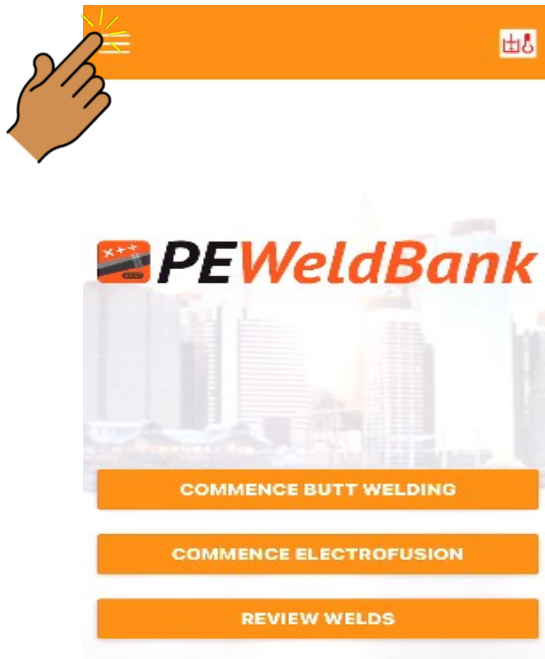
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Bluetooth Setup & Pairing of Sensors

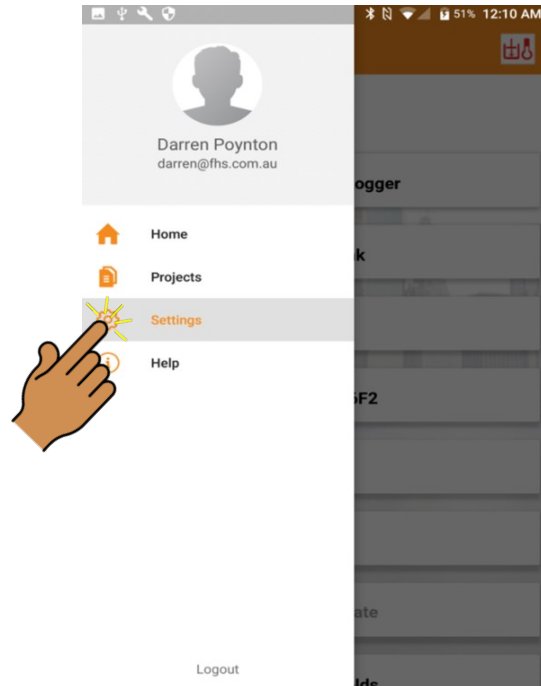
 **N.B.** you can only use sensor set with **PEWeldBank Fusion Logger** subscription, For initial pairing you must also have administrator user level permission and connection to the internet

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

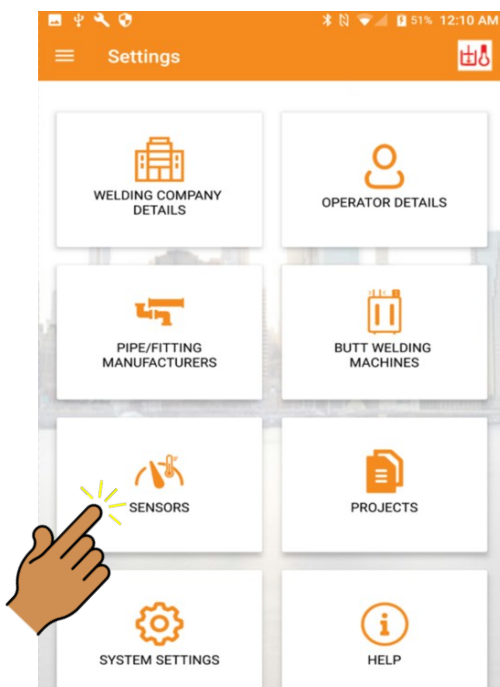
1. Click **Dropdown Menu**



2. Click **Settings**



3. Click **Sensors**



4. Click **Add New**



Bluetooth Setup & Pairing of Sensors Continued

Pairing of Sensors

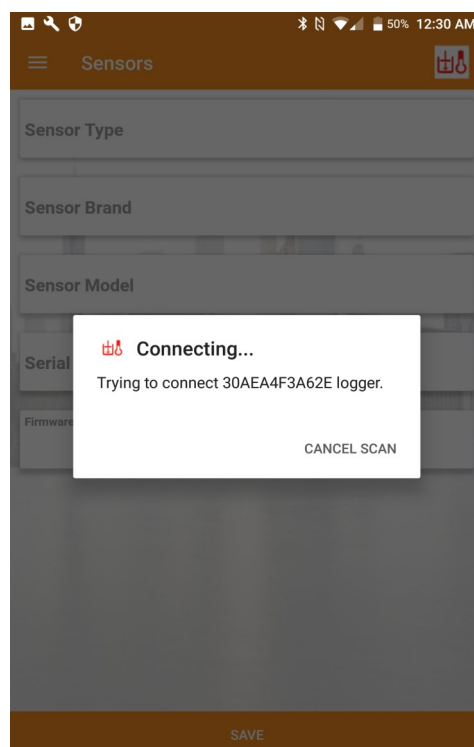
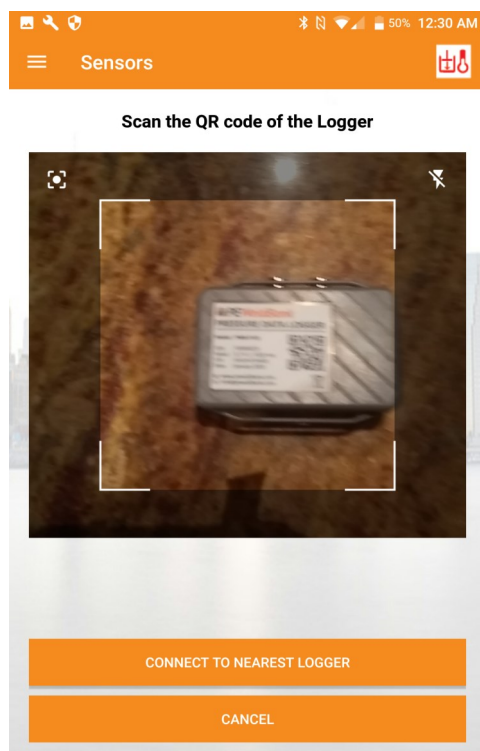
- Connect Pressure sensor to pressure at least 2 bar.
- For the Temperature sensor holding the Surface Temperature Probe against heater plate (at least 80°C / 176°F) will activate the sensor.
- The status light will flash, enabling you to proceed with Bluetooth pairing.

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.

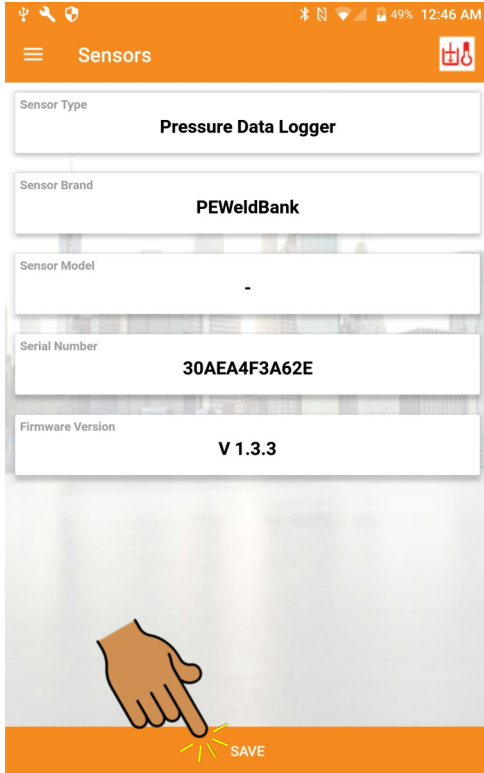
Follow instructions in Dropdown menu on smartphone or tablet [settings] [sensors] [add new] [save]

Scan QR code:

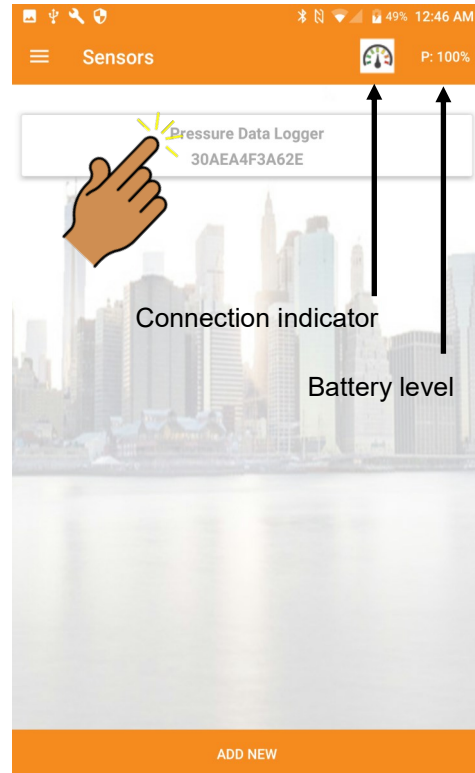


Bluetooth Setup & Pairing of Sensors Continued

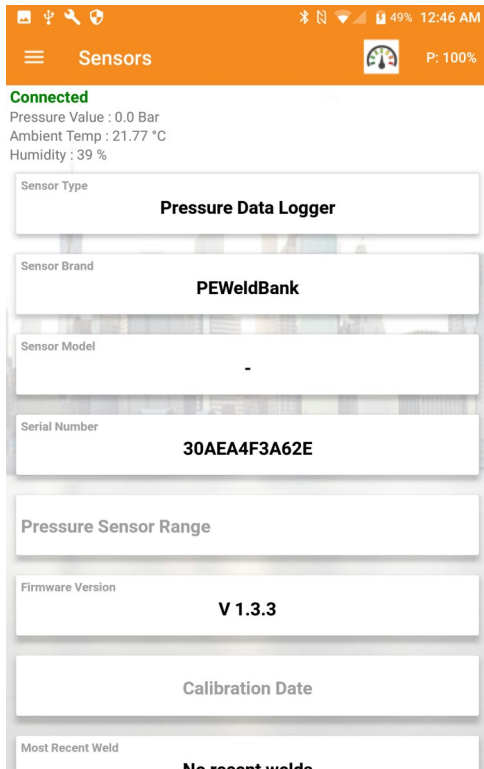
Click Save



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



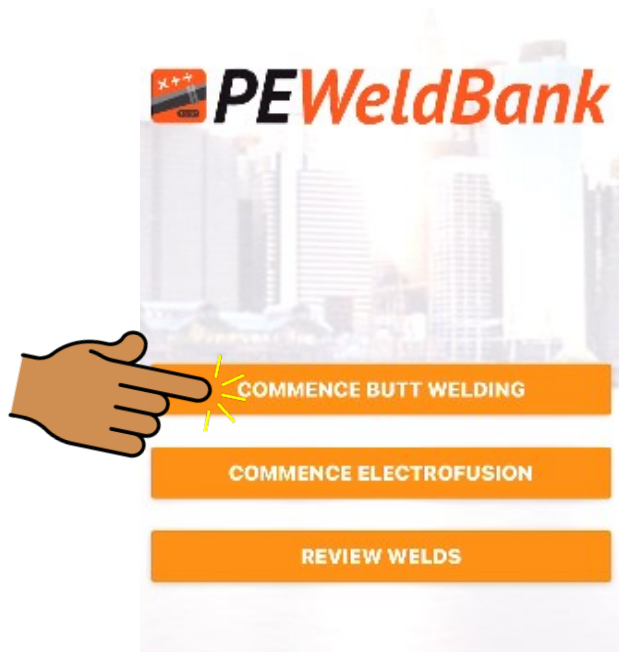
Welding Procedure for App

Also see Basic Welding Machine Operating Procedure

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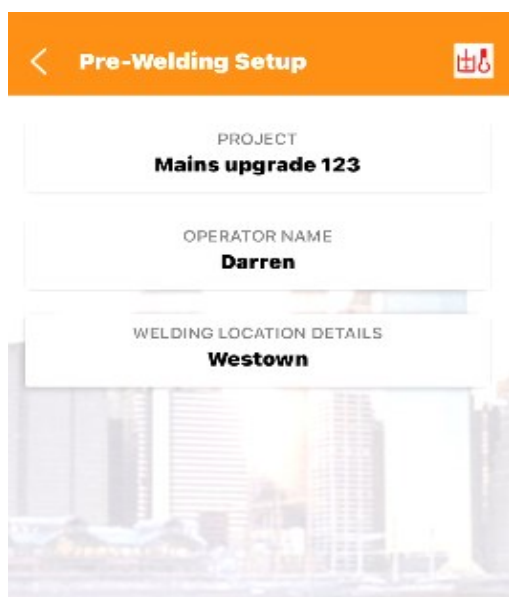
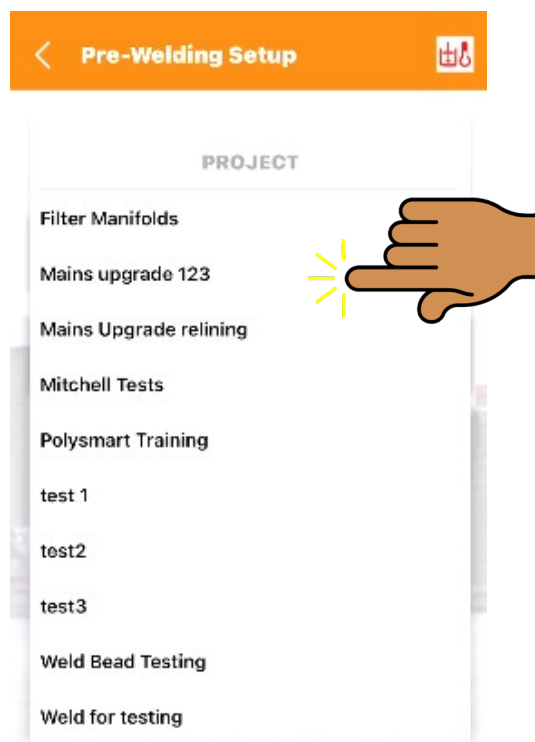
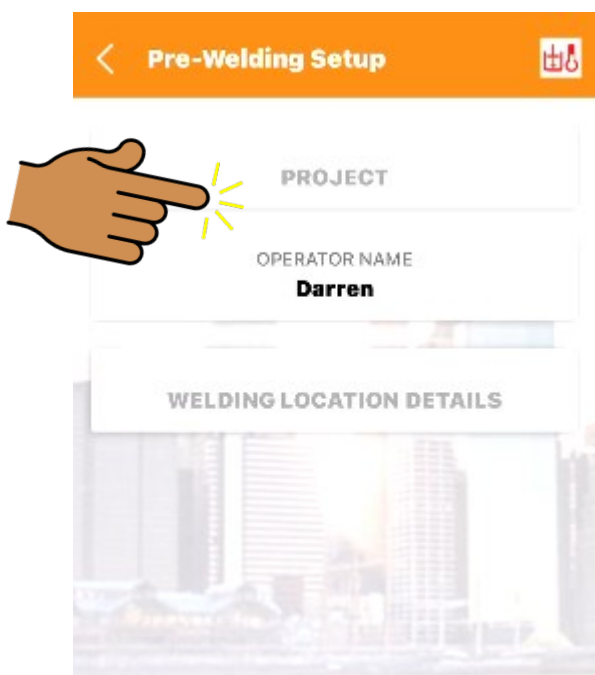
Home Screen: Commence Butt welding or Electrofusion



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   P: 80%

Safety 'Take 5'

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

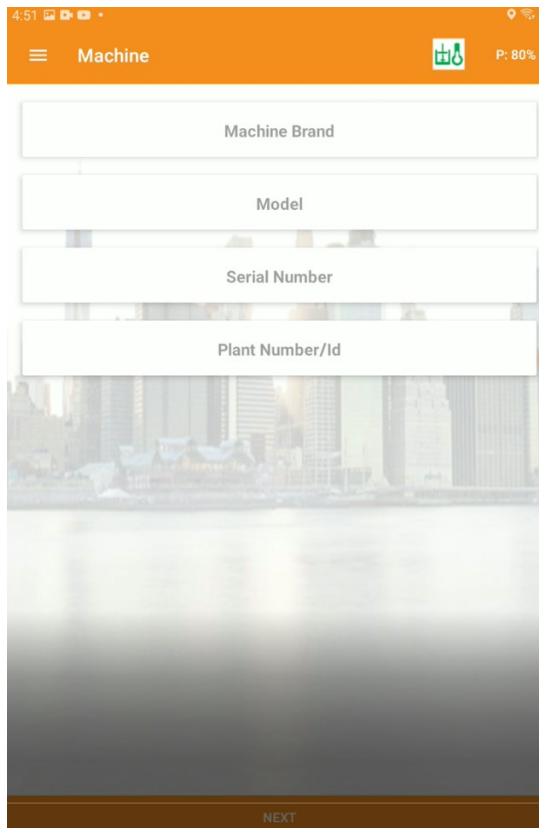
PROCEED - PERFORM THE TASK SAFELY

This is a 12 question OH&S assessment, these questions are asked of the user at the start of the welding session.

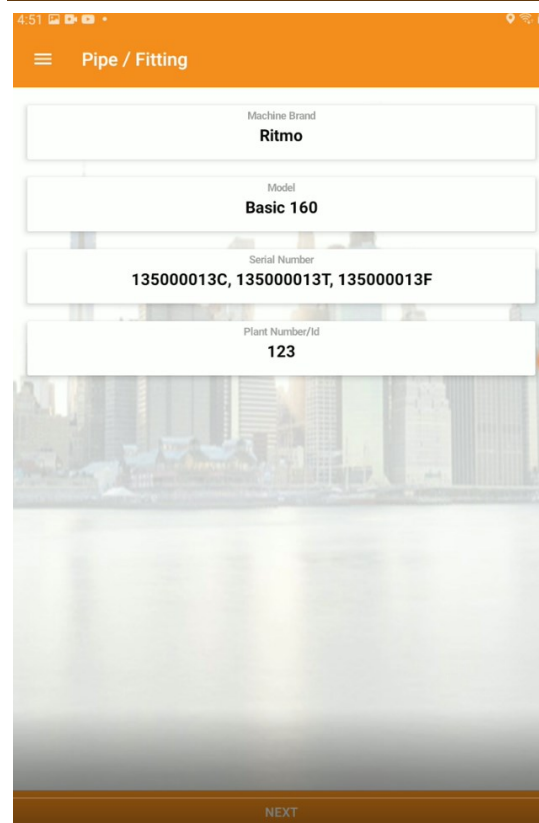
This information is collected and recorded within reports, available within FMS

By default this option is disabled, this option may be enabled within System Settings

Machine selection

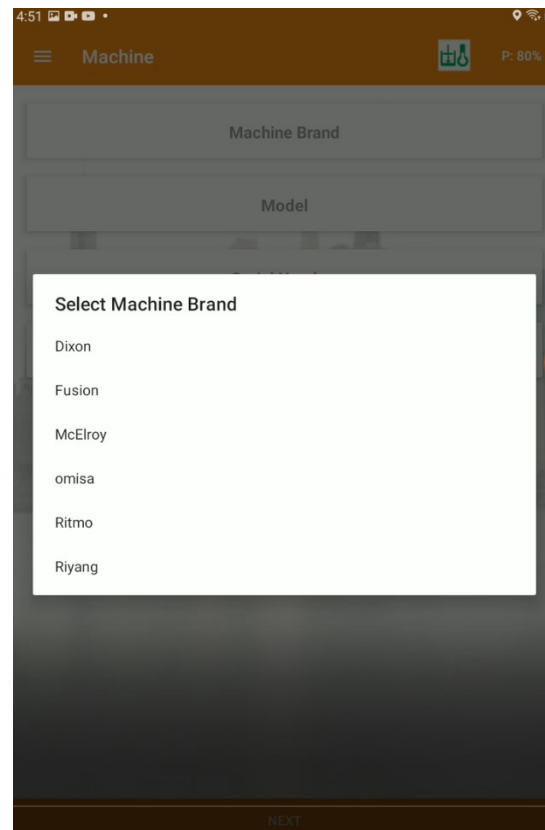


Machine selection screen showing input fields for Machine Brand, Model, Serial Number, and Plant Number/Id. The background is a cityscape. The top bar is orange with a menu icon, the title 'Machine', a welder icon, and 'P: 80%'. A 'NEXT' button is at the bottom.



Machine selection screen showing input fields for Machine Brand, Model, Serial Number, and Plant Number/Id. The background is a cityscape. The top bar is orange with a menu icon, the title 'Pipe / Fitting', a welder icon, and 'P: 80%'. A 'NEXT' button is at the bottom.

Field	Value
Machine Brand	Ritmo
Model	Basic 160
Serial Number	135000013C, 135000013T, 135000013F
Plant Number/Id	123



Machine selection screen showing input fields for Machine Brand, Model, Serial Number, and Plant Number/Id. The background is a cityscape. The top bar is orange with a menu icon, the title 'Machine', a welder icon, and 'P: 80%'. A 'NEXT' button is at the bottom.

Select Machine Brand

- Dixon
- Fusion
- McElroy
- omisa
- Ritmo
- Riyang

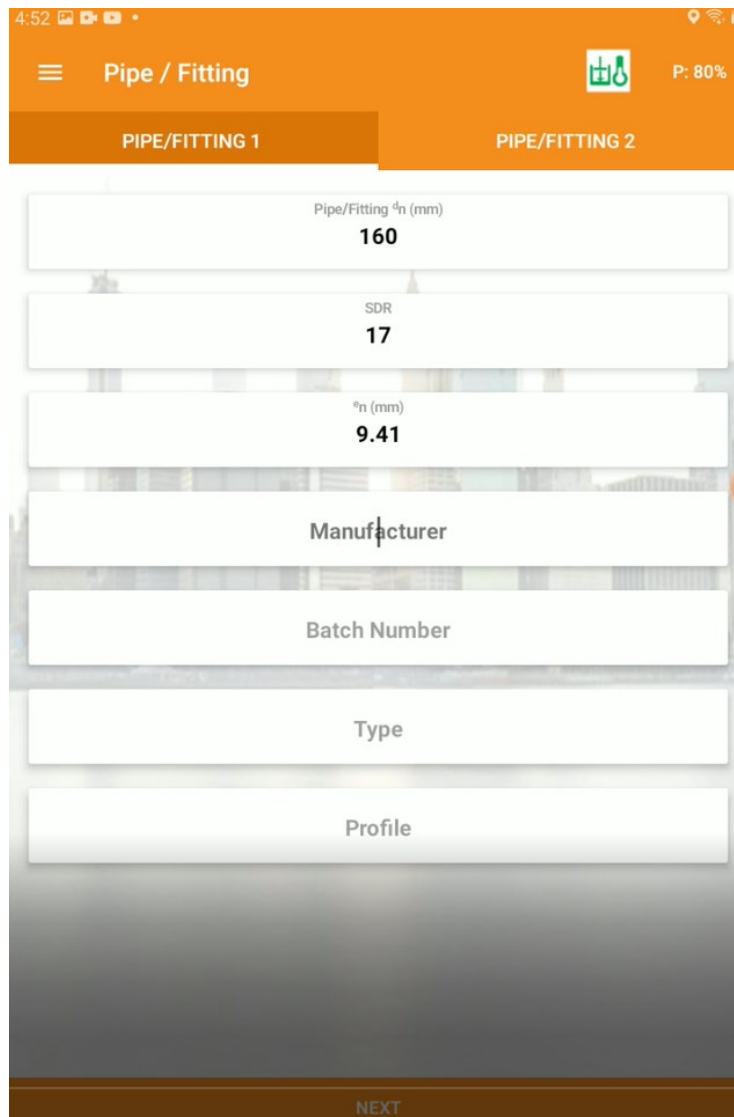
From this screen you will need to select a Machine.

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



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

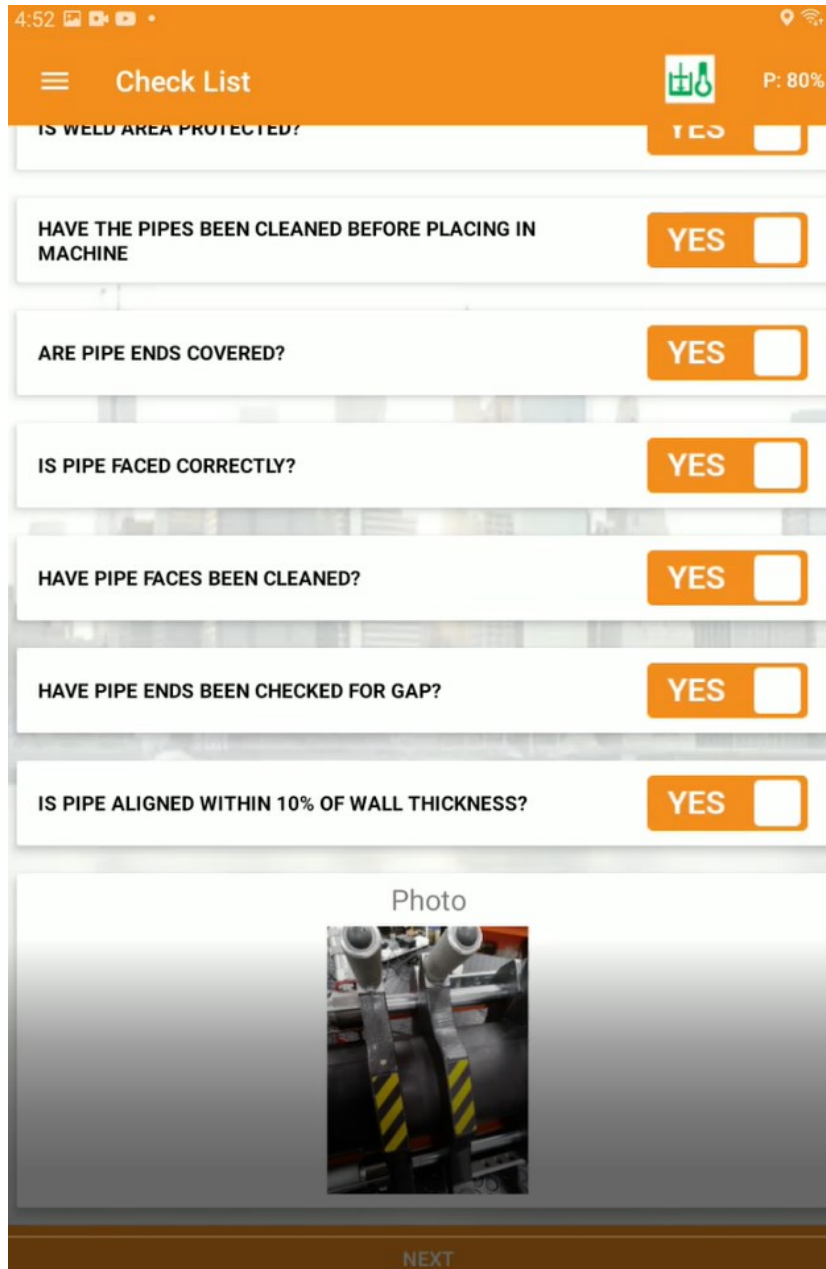
Manufacturer, Type and Profile fields are optional.

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 top status bar shows the time as 4:52 and battery level at 80%. The app header is orange with a menu icon, the title 'Check List', a welding icon, and the battery status 'P: 80%'. Below the header, there are seven checklist items, each with a question and a 'YES' button with an adjacent checkbox. The questions are: 'IS WELD AREA PROTECTED?', 'HAVE THE PIPES BEEN CLEANED BEFORE PLACING IN MACHINE', 'ARE PIPE ENDS COVERED?', 'IS PIPE FACED CORRECTLY?', 'HAVE PIPE FACES BEEN CLEANED?', 'HAVE PIPE ENDS BEEN CHECKED FOR GAP?', and 'IS PIPE ALIGNED WITHIN 10% OF WALL THICKNESS?'. All checkboxes are currently unchecked. At the bottom of the list is a 'Photo' section with a camera icon and a photo of two pipes being aligned. Below the photo is a 'NEXT' button.

Question	YES	Checkbox
IS WELD AREA PROTECTED?	YES	<input type="checkbox"/>
HAVE THE PIPES BEEN CLEANED BEFORE PLACING IN MACHINE	YES	<input type="checkbox"/>
ARE PIPE ENDS COVERED?	YES	<input type="checkbox"/>
IS PIPE FACED CORRECTLY?	YES	<input type="checkbox"/>
HAVE PIPE FACES BEEN CLEANED?	YES	<input type="checkbox"/>
HAVE PIPE ENDS BEEN CHECKED FOR GAP?	YES	<input type="checkbox"/>
IS PIPE ALIGNED WITHIN 10% OF WALL THICKNESS?	YES	<input type="checkbox"/>

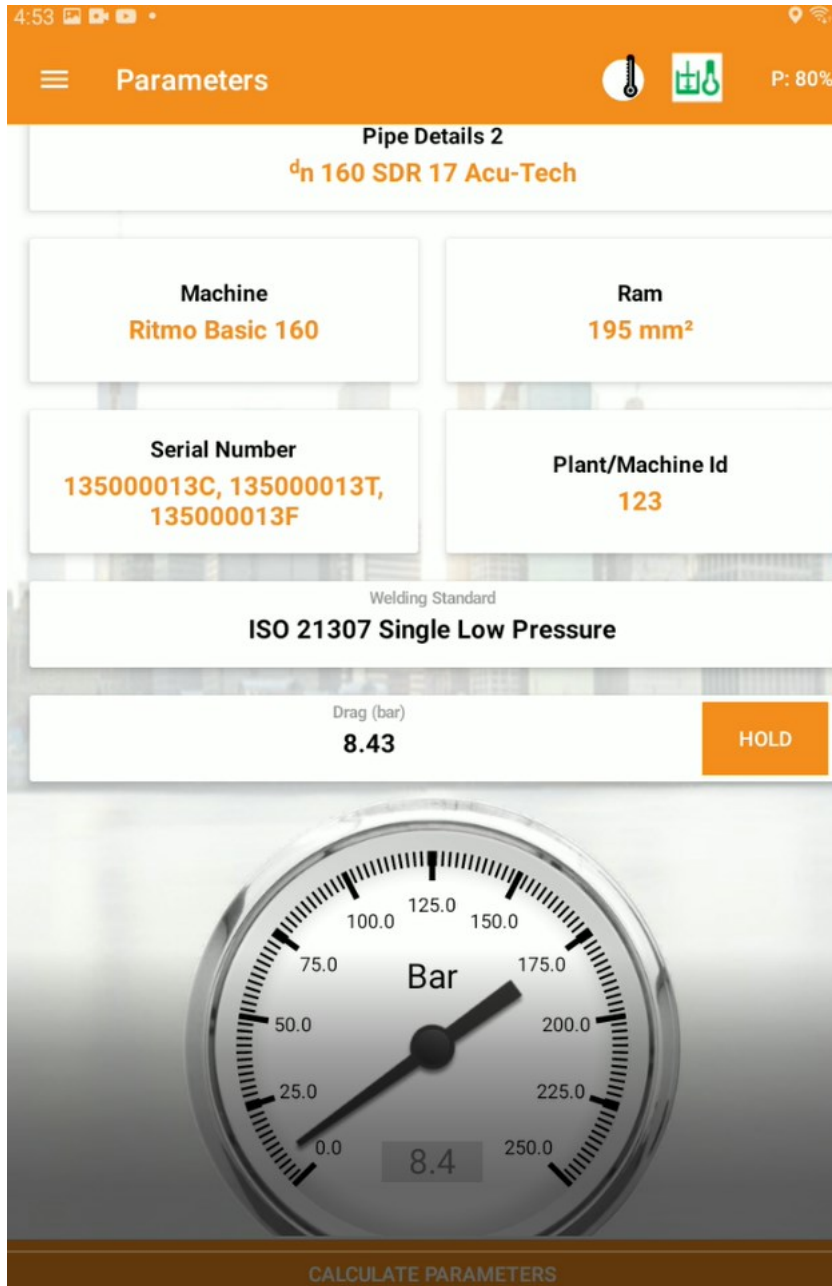
Photo

NEXT

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 screenshot shows the 'Parameters' screen of the PEWeldBank application. At the top, there's a status bar with the time 4:53 and battery level 80%. Below the title bar, the screen displays 'Pipe Details 2' with 'dn 160 SDR 17 Acu-Tech'. It then shows four parameter cards: 'Machine' (Ritmo Basic 160), 'Ram' (195 mm²), 'Serial Number' (135000013C, 135000013T, 135000013F), and 'Plant/Machine Id' (123). Below these is the 'Welding Standard' (ISO 21307 Single Low Pressure). At the bottom, there's a 'Drag (bar)' field with the value 8.43 and a 'HOLD' button. A large pressure gauge is displayed, showing a reading of 8.4 Bar. The bottom of the screen has a 'CALCULATE PARAMETERS' button.

Parameter	Value
Pipe Details 2	dn 160 SDR 17 Acu-Tech
Machine	Ritmo Basic 160
Ram	195 mm²
Serial Number	135000013C, 135000013T, 135000013F
Plant/Machine Id	123
Welding Standard	ISO 21307 Single Low Pressure
Drag (bar)	8.43

Pressure Gauge Reading: 8.4 Bar

Button: HOLD

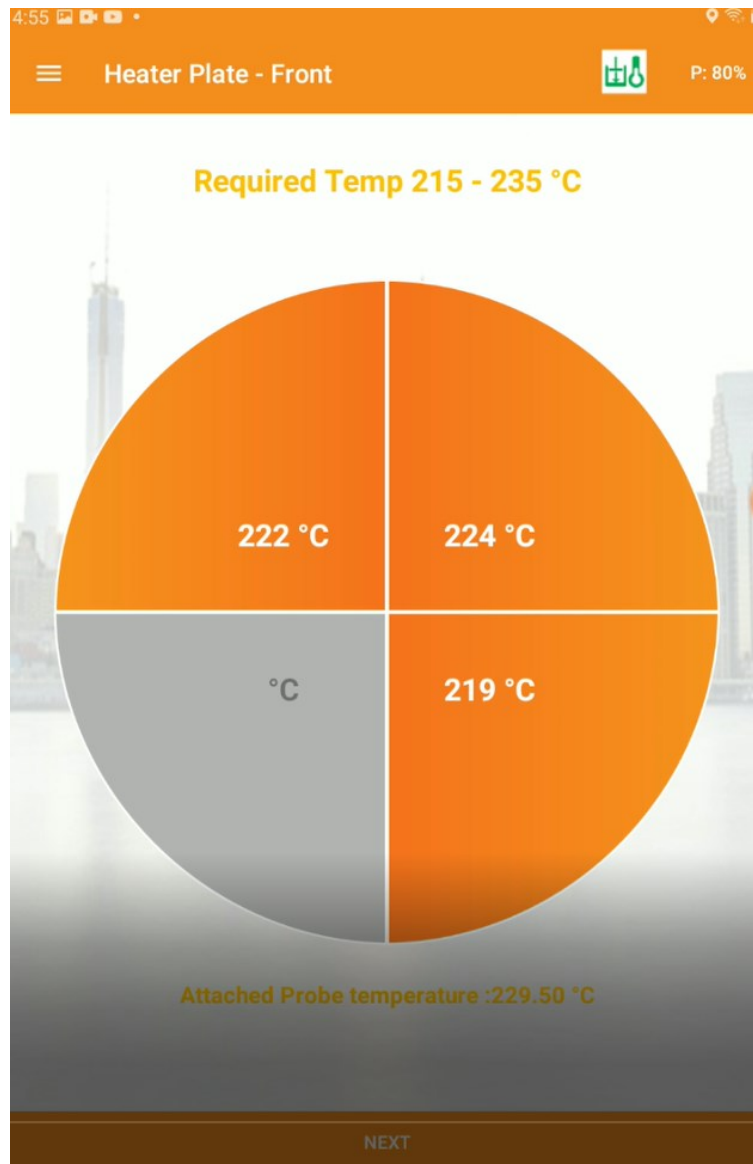
Button: CALCULATE PARAMETERS

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.

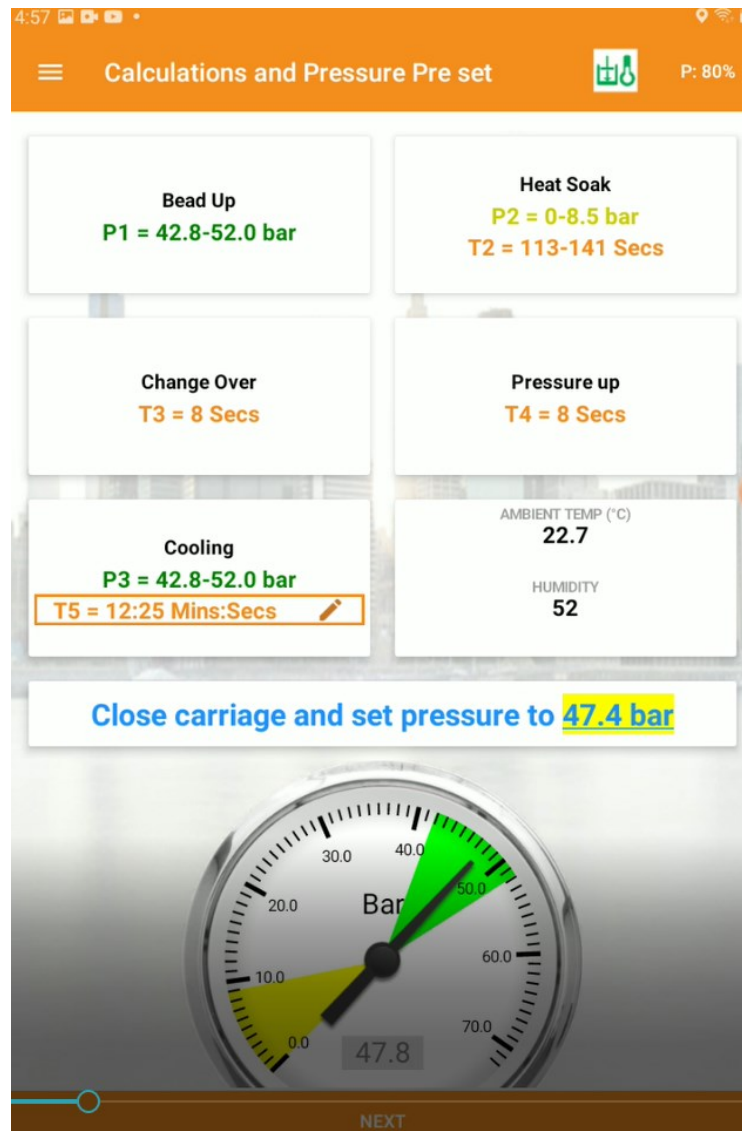
Check Heater plate



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

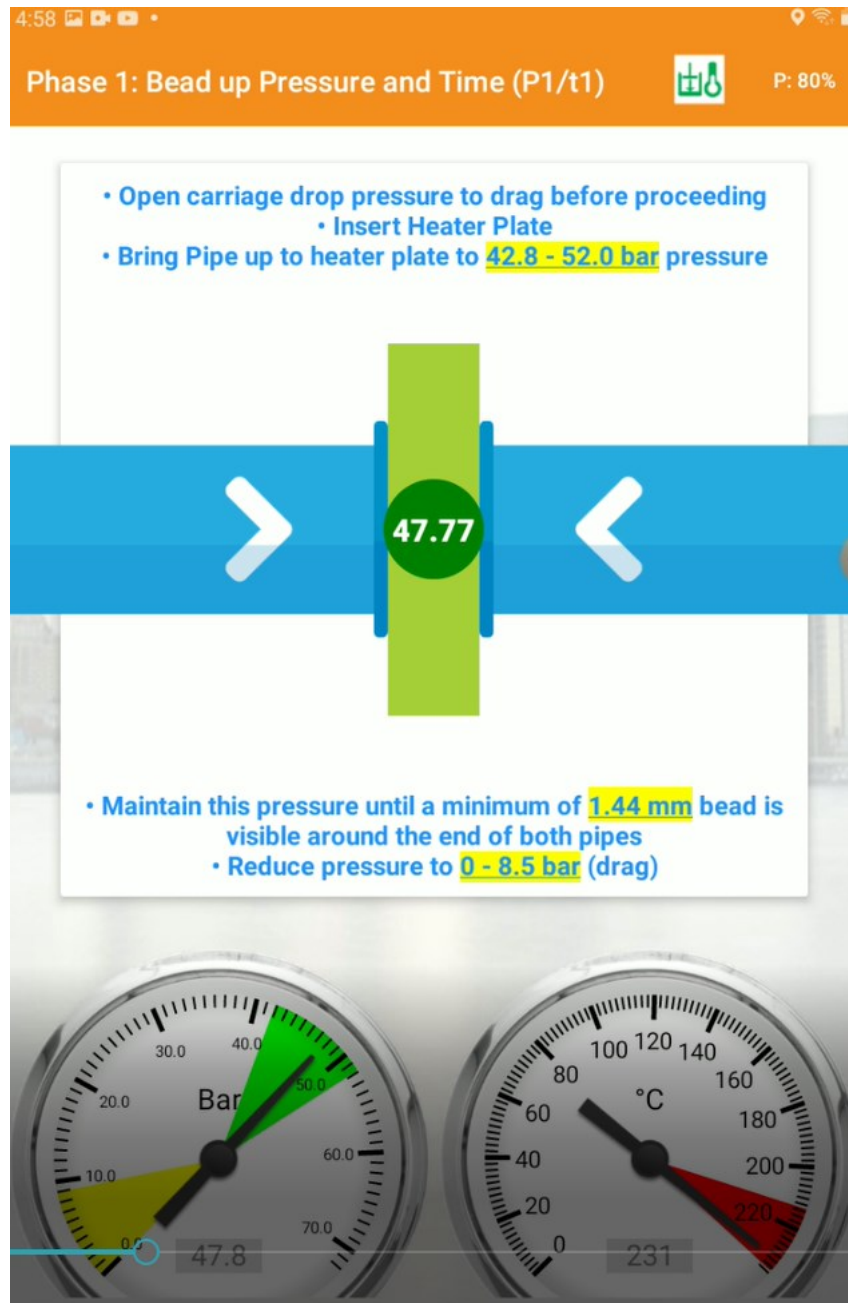


When connected to pressure sensor set, this screen automatically logs Ambient temperature and Humidity, if not connected to sensor set these can be added manually.

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.

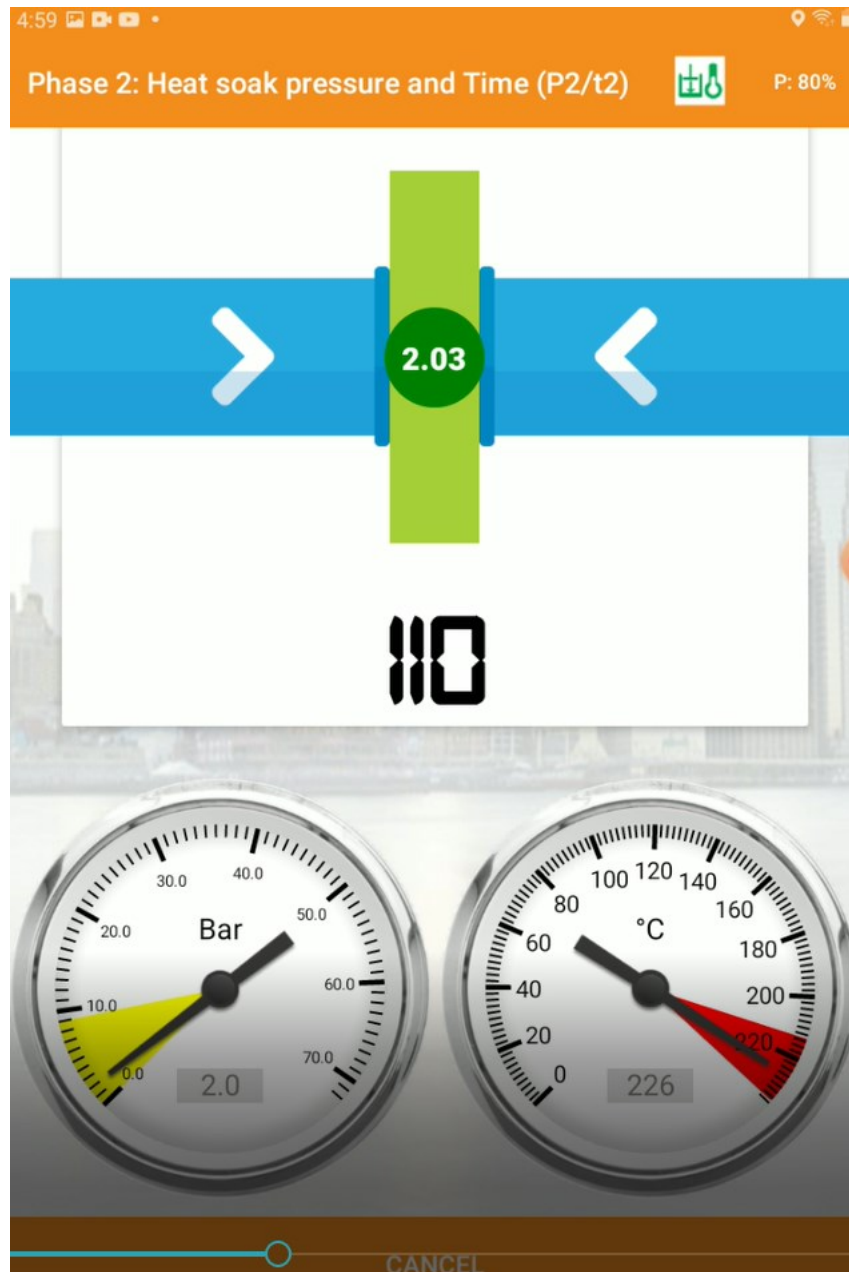
Phase 1: Bead up



Phase 1 screen instructs the user what to do and when to reduce pressure to Drag.

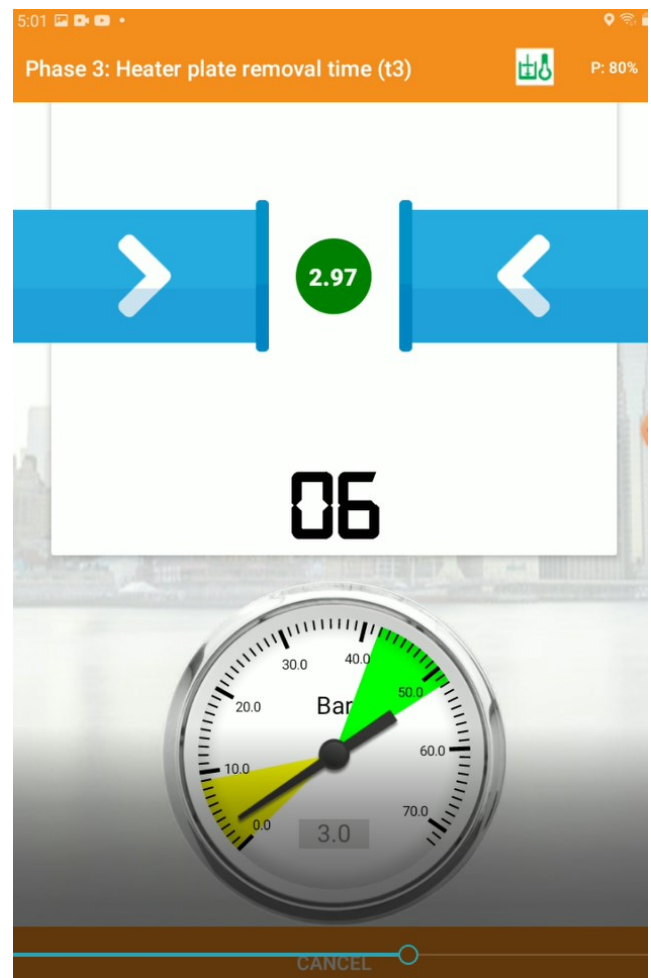
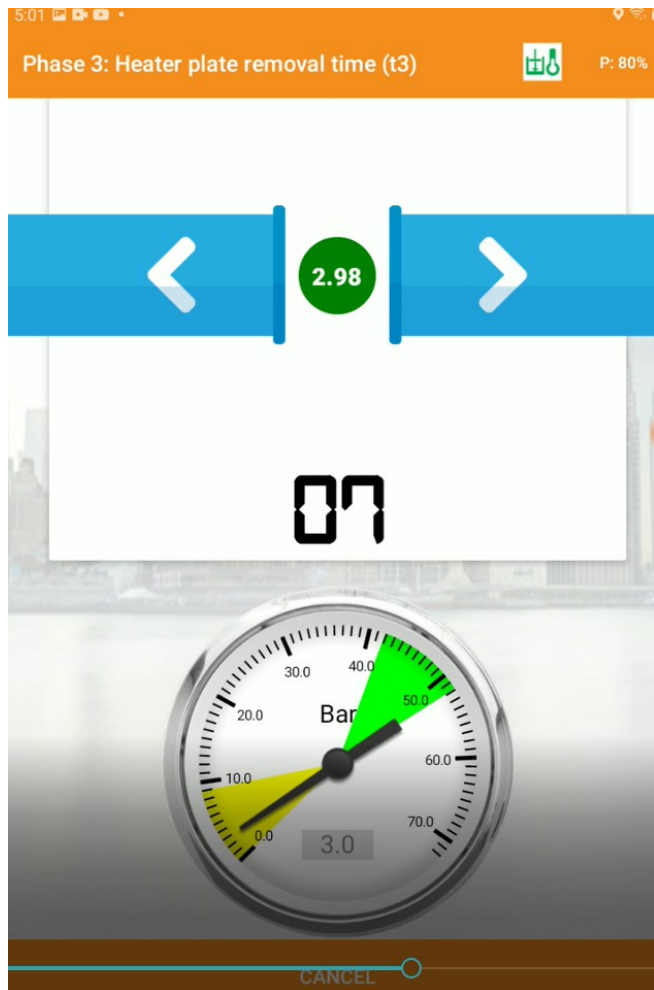
Temperature can also be monitored during this Phase

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)

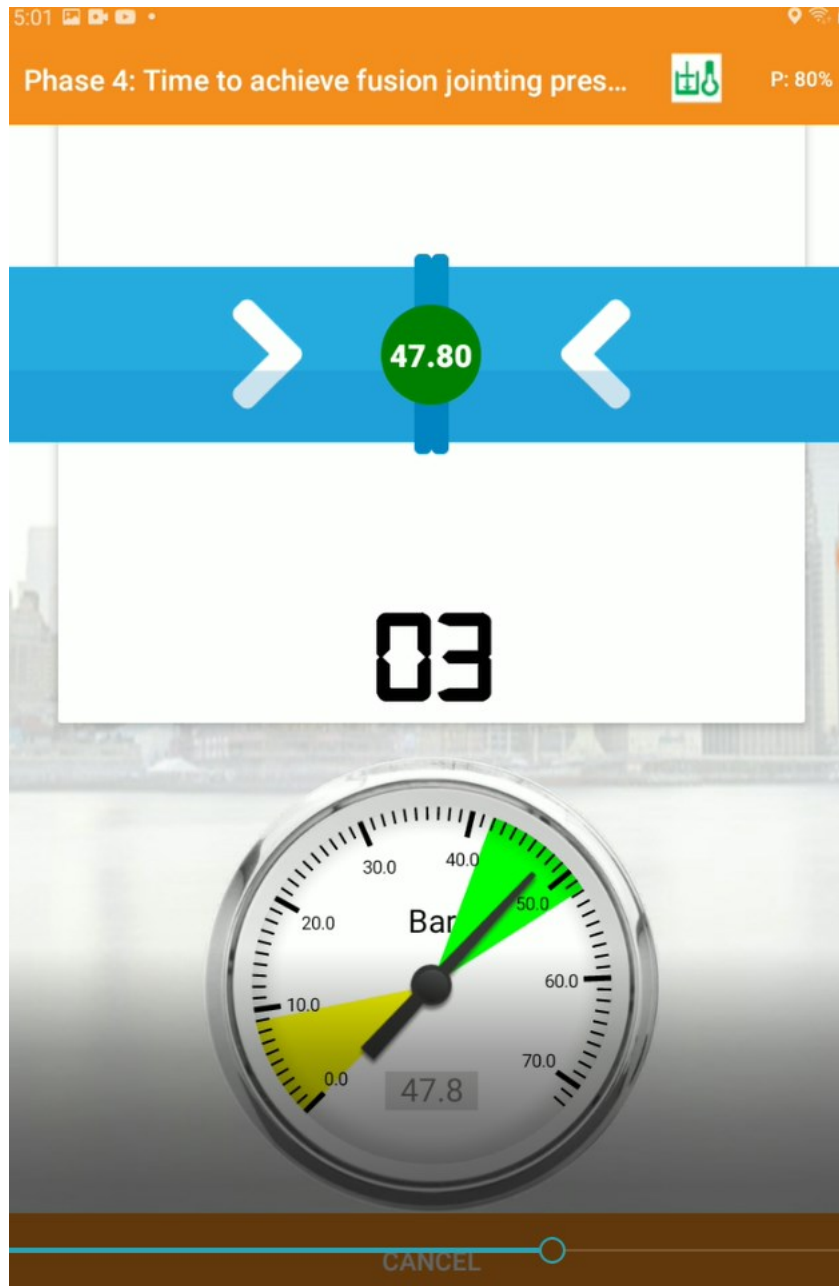
Phase: 3. Heater Plate Removal



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

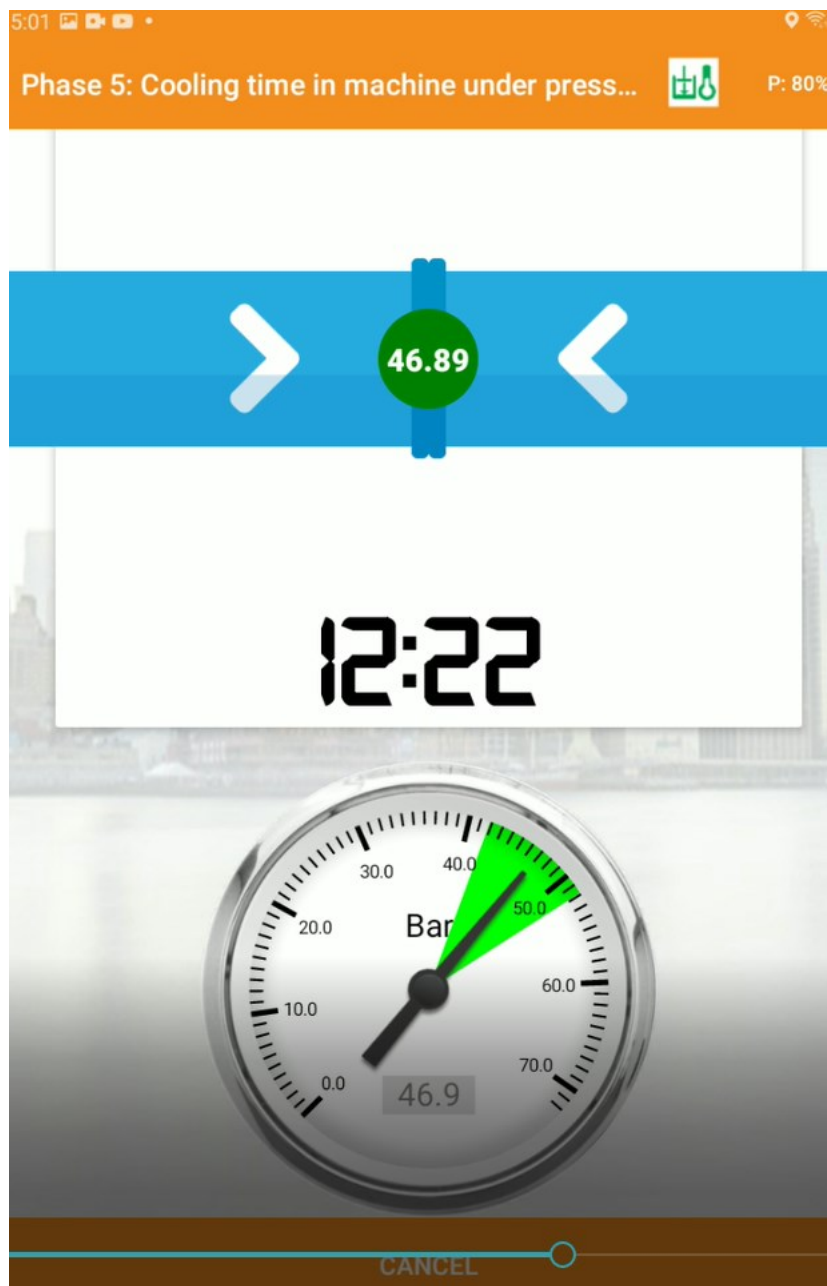
Phase 4: Pressure up

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



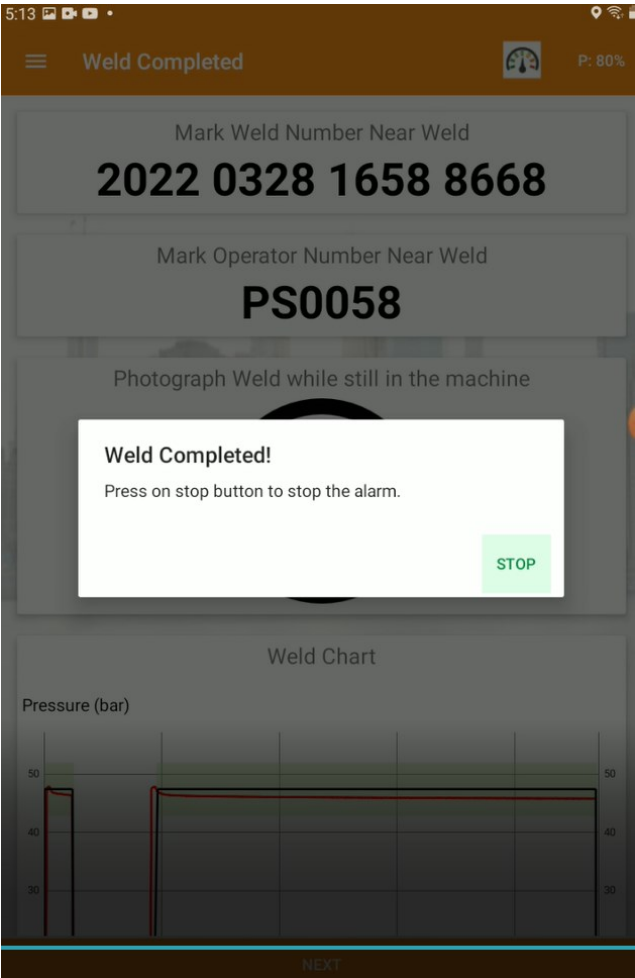
User is notified by a alarm to bring ends back up to weld pressure within displayed time.

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

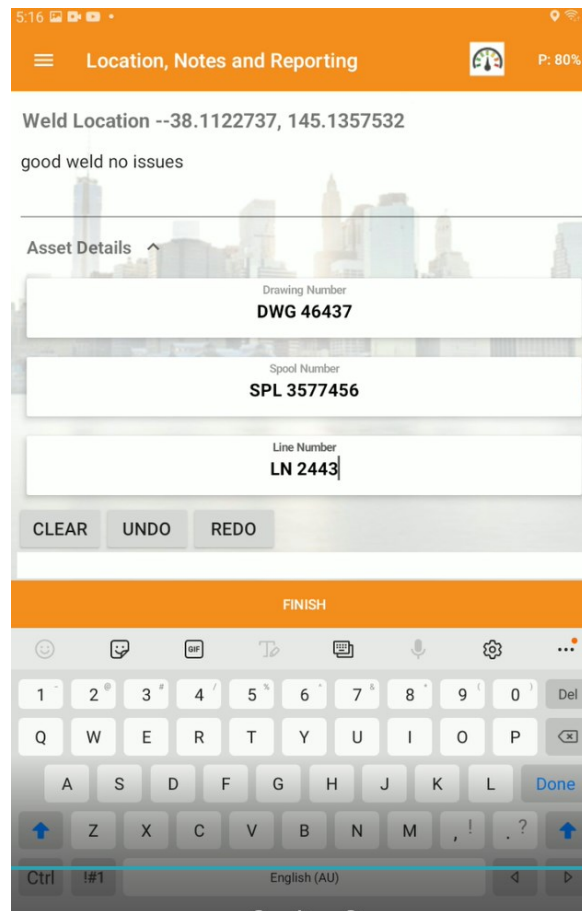
The unique number is made up from the following information.

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 ;

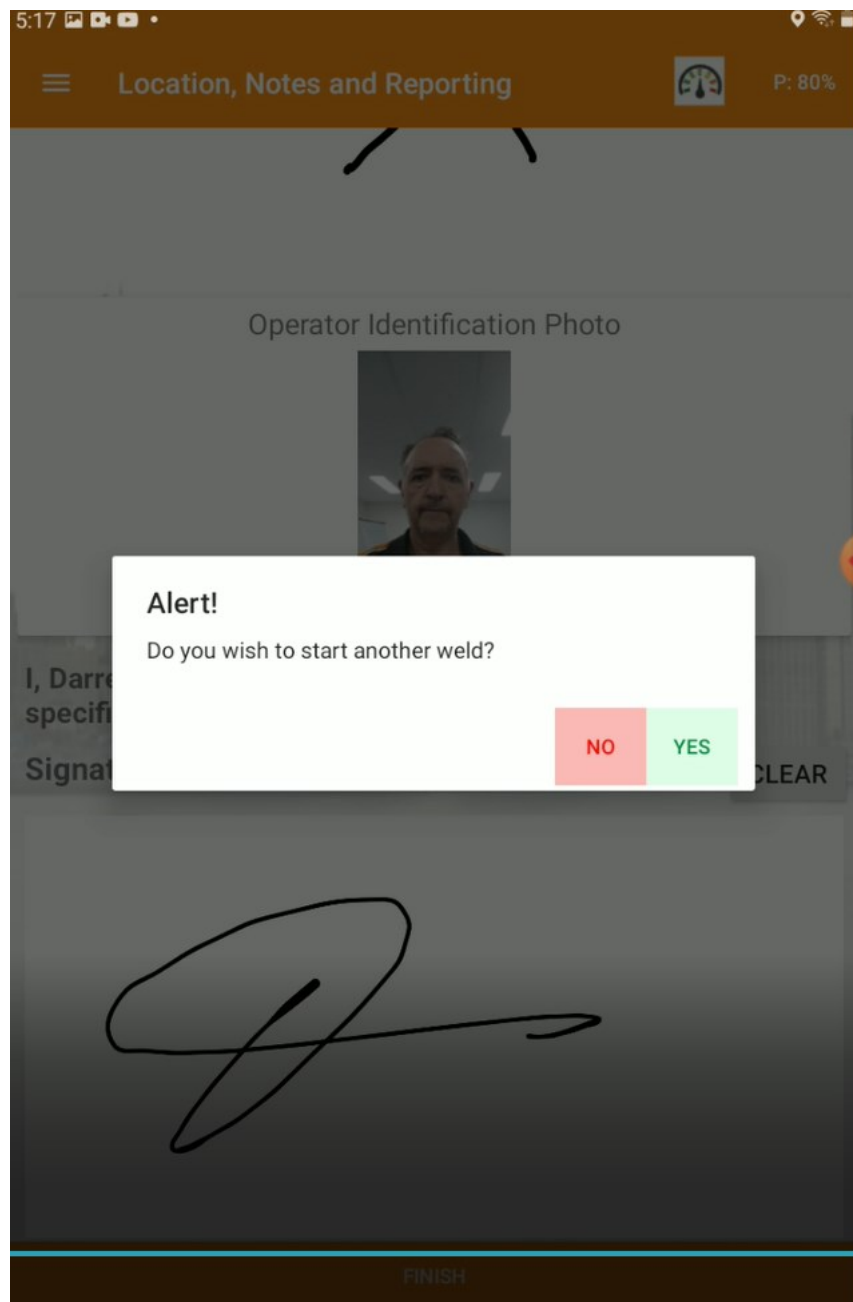
Sketch

Operator Identification Photo

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



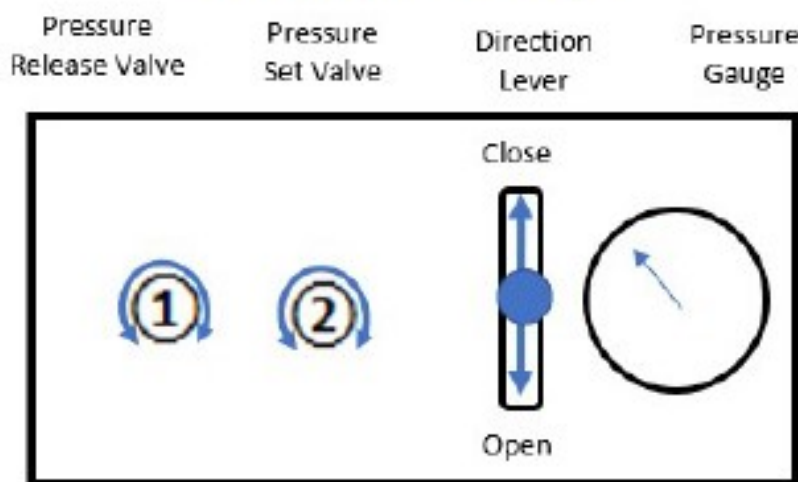
Basic Welding Machine Operating Procedure

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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.

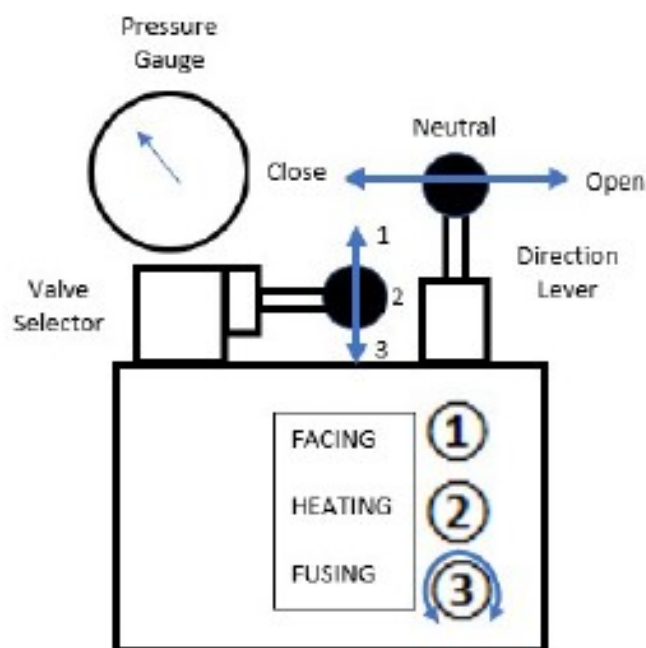
(Continual flow:- Hydraulic pump runs continually,

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

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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

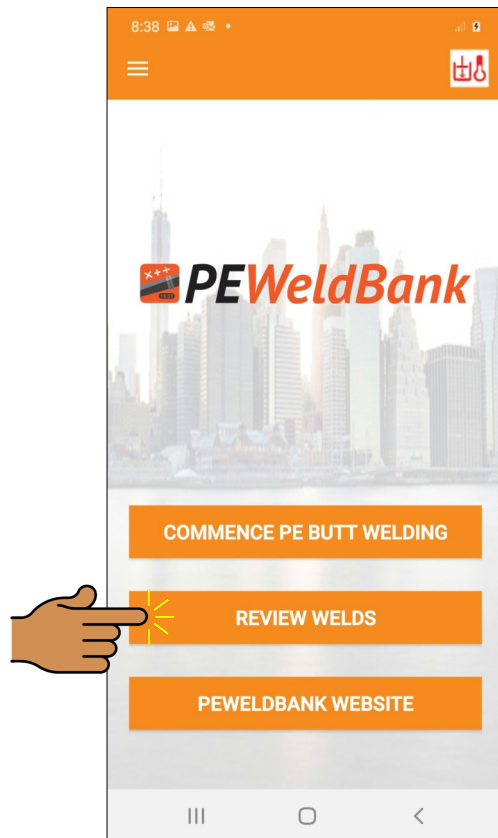
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How to Review Welds on Smartphone or Tablet

Go to the **HOME SCREEN**

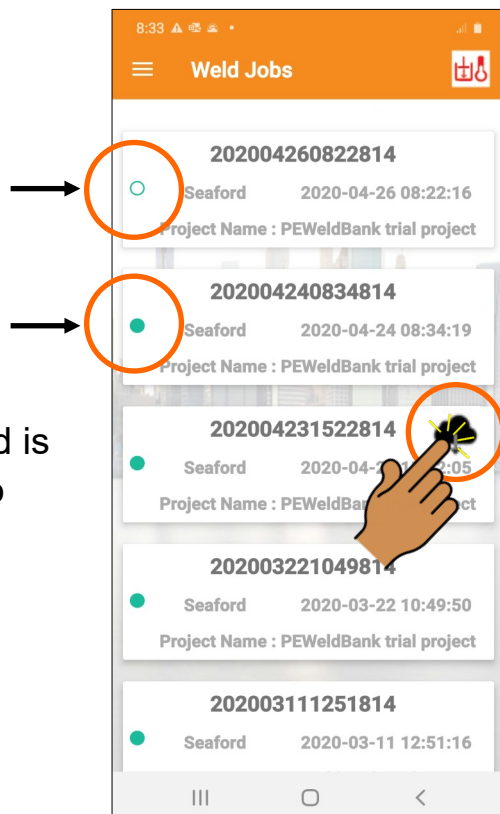
Click on **REVIEW WELDS**



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

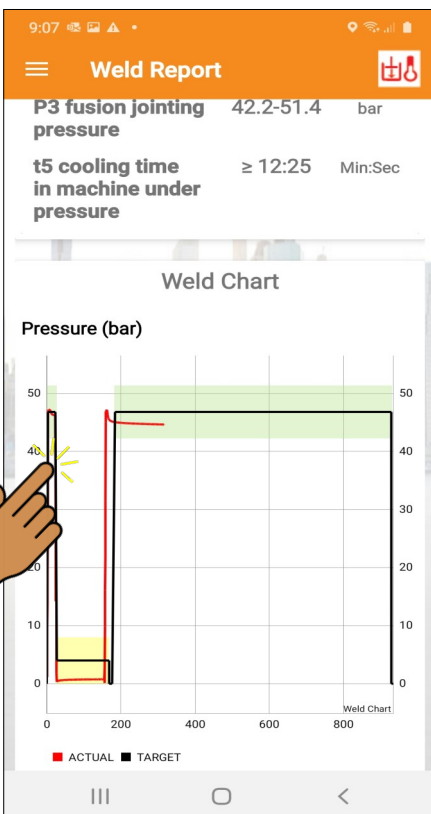
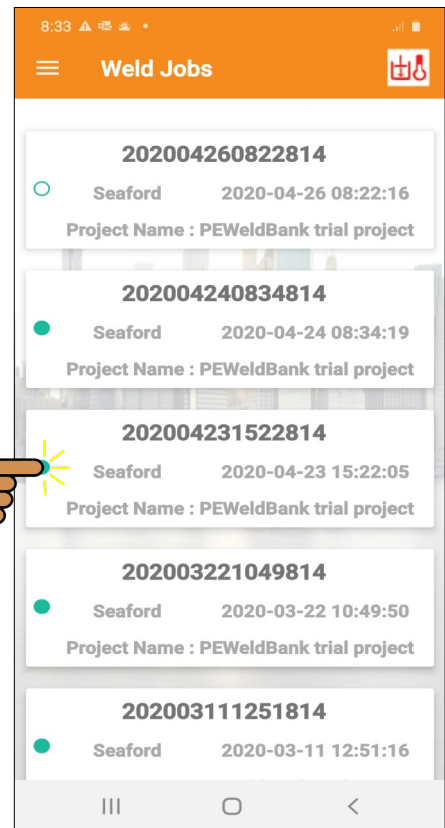
If you see a cloud icon this means this weld is only on the FMS but can be downloaded to the Tablet / Phone by clicking on icon ☁️



How to Review Welds - Insert 2nd GPS Location

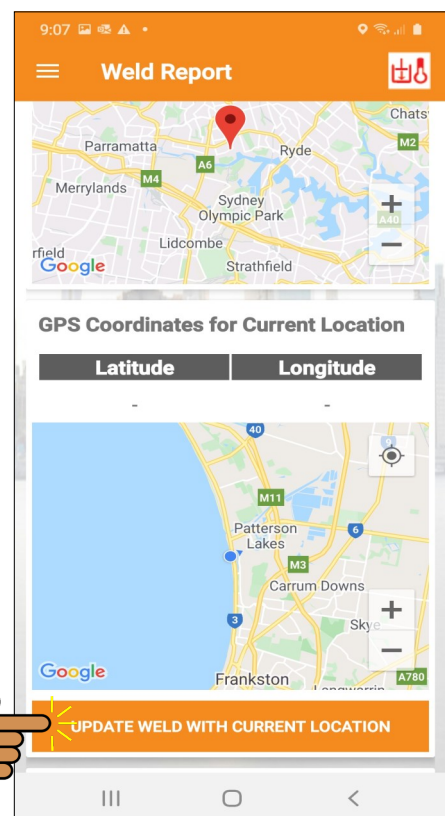
A valuable feature of **PEWeldBank** is the ability to add a 2nd GPS location. This is particularly useful where the installation location is different to where the welding was undertaken.

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

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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
	Sensor not connected to pressure	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 temporally 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 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.



Appendix 1

Connection of Hydraulic test point

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Appendix A

Ritmo Basic with steel case

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

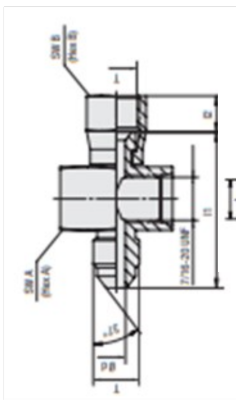
Remove hydraulic hose from control box

Fit "Stauff Swivel run tee"

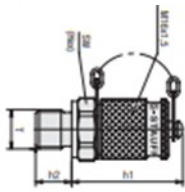
Fit hydraulic hose to "Stauff Swivel run tee"

Fit "Stauff Test point"

Fit PEWeldBank Transducer to Stauff test point 20.



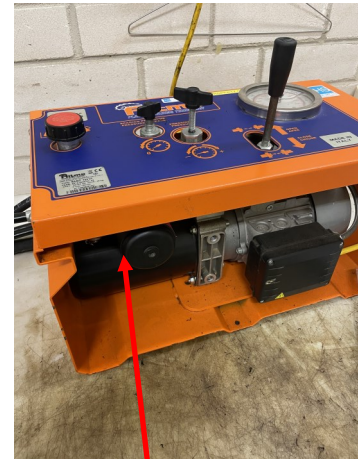
Line item "1"



Line item "19"



PEWeldBank Transducer (supplied)





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"

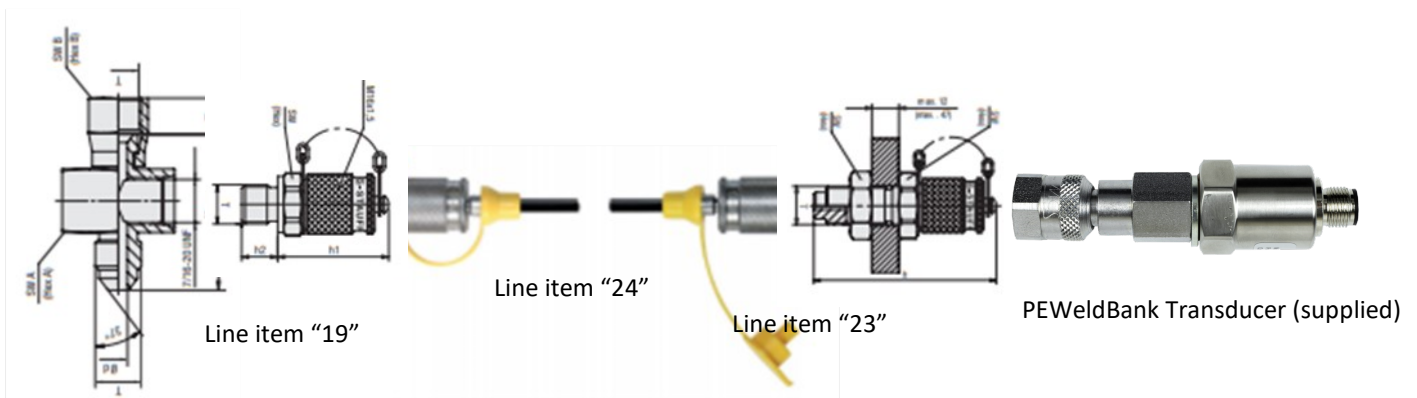
Fit hydraulic hose to item "1"

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

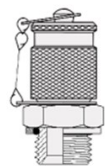
Refit quick connect fitting

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.

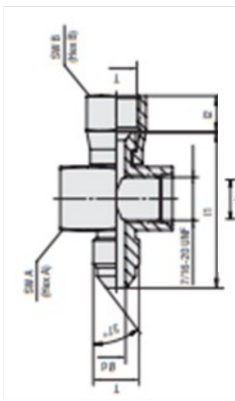
Remove male quick connect hydraulic coupling from control box

Fit TBC

Re-Fit male coupling to "TBC"

Fit "TBC"

Fit PEWeldBank Transducer to TBC



TBC



PEWeldBank Transducer (supplied)



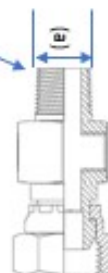
Please contact your local hydraulics company or PEWeldBank reseller for fittings.

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

Hydraulic Test Port Tee Identification

Line No	"BSPT" Male x BSPP Female Swivel BSPP Test Port Tee			Price
	Part Number	Description	OD mm (a)	
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		

Internal Taper



Line No	"JIC" Male x JIC Female Swivel BSPP Test Port Tee			Price
	Part Number	Description	OD mm (a)	
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		

External Taper



Line No	ORFS Male x JIC Female Swivel BSPP Test Port Tee			Price
	Part Number	Description	OD mm (a)	
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				

Flat face with o ring



Line No	BSPP Male x Test 20 Male			Price
	Part Number	Description	OD mm (a)	
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

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

Line No	Misc			Price
	Part Number	Description		
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



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

Technodue



Appendix 2

Updating Sensor Firmware

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Updating Sensors Firmware ONLY VIA iOS (apple)

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

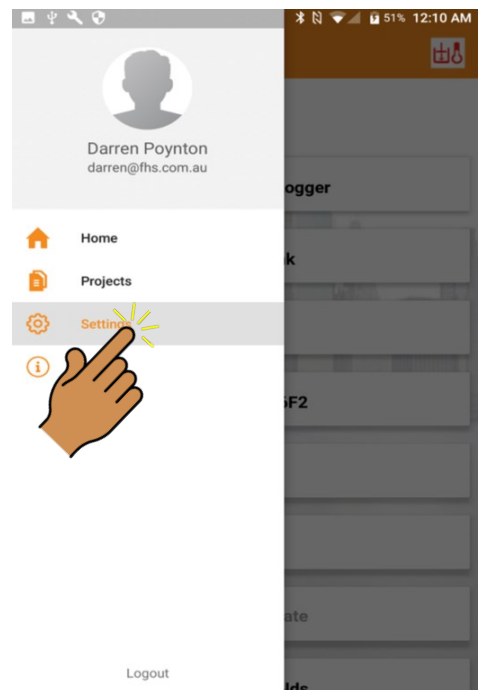
Temperature Sensors V1.0.4 and Pressure Sensors V1.3.7 or earlier cannot be updated and must be returned to GoPoly for update.

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

1. Click **Dropdown Menu**

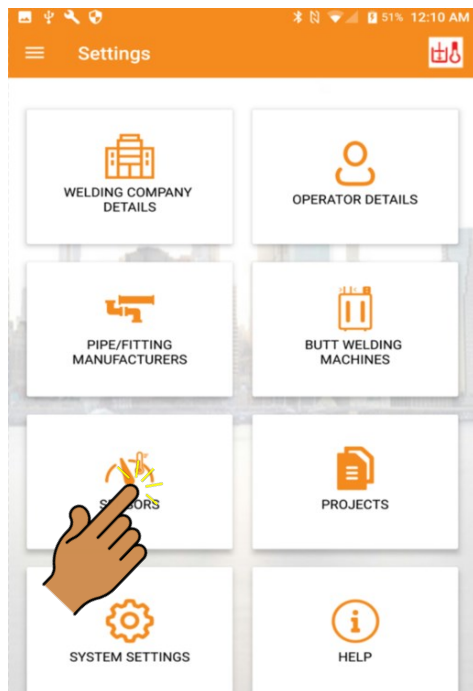


2. Click **Settings**

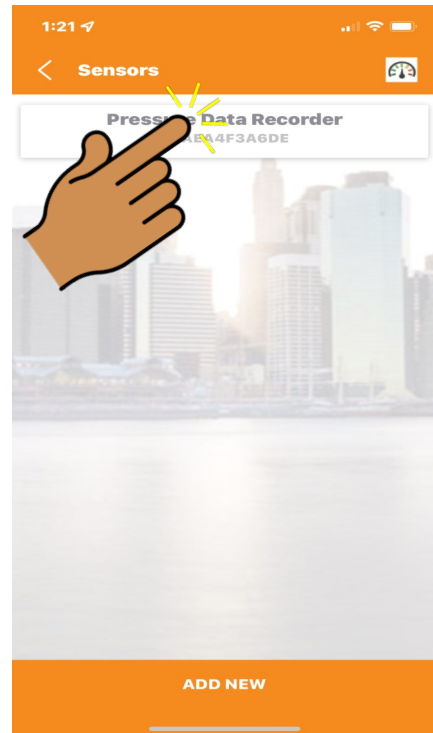


Updating Sensors Firmware

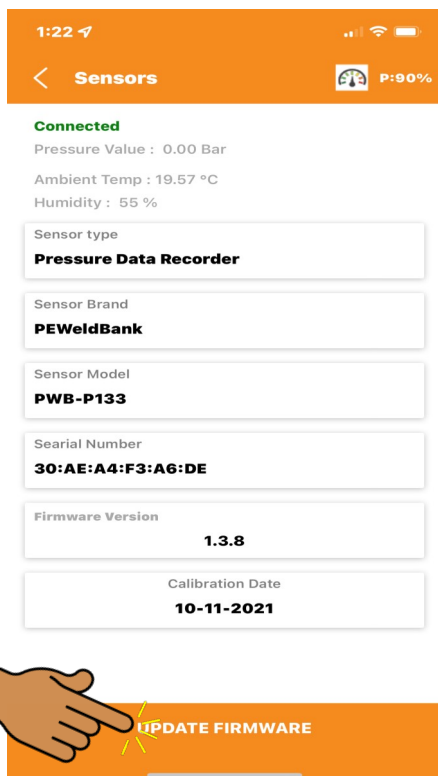
3. Click **Sensors**



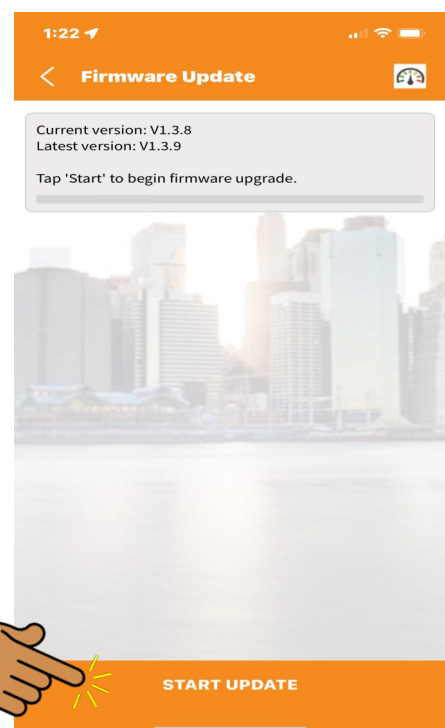
4. Click **sensor**



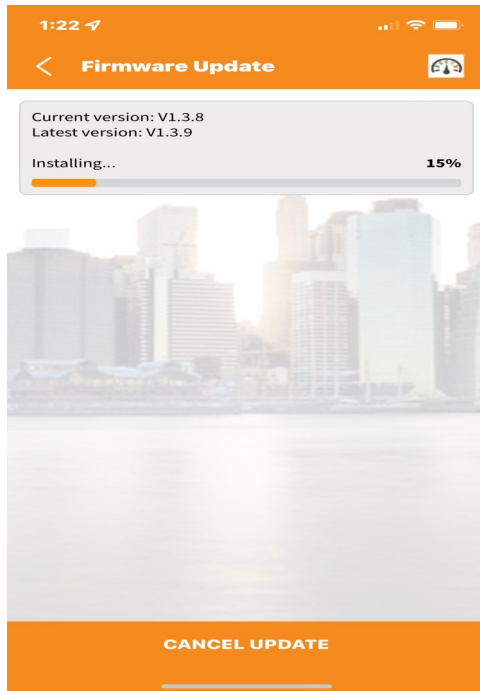
5 Click **Update Firmware**



6 Click **Start Update**

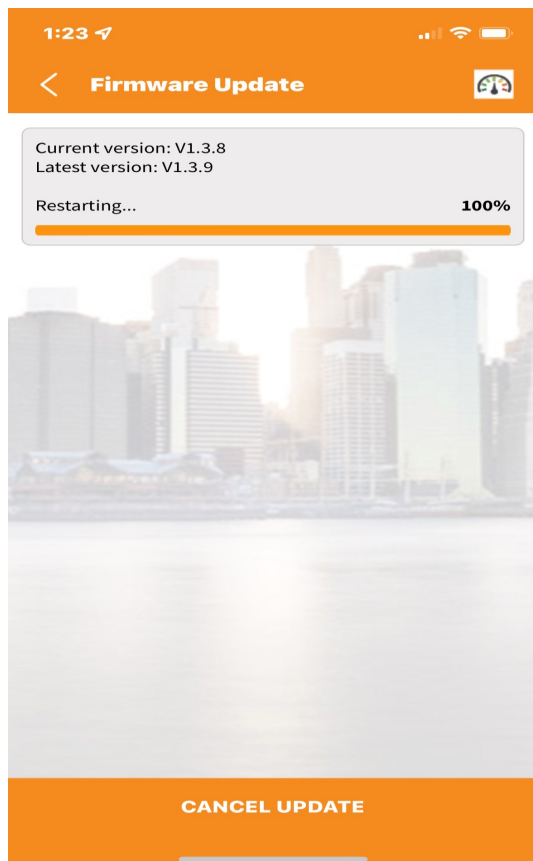


Updating Sensor Firmware



7. Firmware updated

5 Click **Finish**





Appendix 3

Connection to Heater Plate via PT100 internal sensor

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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

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