

# Installation and Operation Manual



# www.PEWeldBank.com

Info@PEWeldBank.com

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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



# **PEWeldBank**





## **Subscription Rates**

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



# How to log on to the Fusion Management System (FMS)

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

1. Go to PEWeldBank.com on your PC or Laptop







## How to set up Company Details

Step 1, Click on Settings

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

EWELDBANK   FMS					💄 Darren Poynto
🙆 Dashboard	Company Pi	ofile		Package Information	
<ul> <li>Projects</li> <li>BW Machines</li> </ul>	Name	Your Company		Package : Payment Term :	PEWeldBank Fusion Logger (5 User: Year Manday 15th of April 201
O Pipe Manufacturers	Address	Your Address	//	Account Status :	Active
Meports	Email	0410108101 info@peweldbank.com			Change your package
📽 Users	Manager Name	Your Managers Name		Payment Method	
Settings	Manager Phone	0418108101		Card Number : Expiry Date :	
	Company Logo (Size 200 x 200)				Edit Delete
		Drop Image here			

# Set up Users (welder / admin)

Step 2, Click on Users

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

PEWELDBANK   FMS_							<b>±</b>	Darren Poynton
2 Dashboard	Use	ers						Home / Users
♥ BW Machines	<b>+</b> A	dd User	CSV E	xcel <b>?</b> Help	o Refresh Data			
O Pipe Manufacturers							Search: Search	Keyword
🗠 Reports		UVelder Number	First Name	♣ Last Name	🜲 Username	Email	Phone	🜲 User Status
Users	•	PS001	Melissa	Poynton	info@polysmart.com.au	info@polysmart.com.au	0419108101	Active
Settings	•	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
	Showir	ng 1 to 3 of 3 e	ntries			First	Previous 1	Next Last



# How to set up Company Details

Step 3, Click on BW Machines

Set Up your Butt Welding Machines

	PEWELDBANK   FMS							2	Darr	en Po	oynton
	Dashboard Projects	Butt	Welding Mac	Dashboard / Butt Welding Machines							
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,17	O Pipe Manufacturers						Search:	Search k	<eywa< th=""><th>ord</th><th></th></eywa<>	ord	
$\sim$	🗠 Reports	- I	Make	🚖 Model	Serial Number	Plant No / ID	🌲 Machine Status	Acti	ions		
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			Ritmo	Joyt	we3A02	12	Active	۲	1	0	â
		_	T I	DI 7150	D/DC	4		-		~	<u>a</u>

# Set up Pipe & Fittings Manufacturers

Step 4, Click on Pipe Manufactures

Set Up your Pipe and Fittings Library

PEWELDBANK   FMS						2	Darı	ren P	oynton
Dashboard Projects	Pip	e Manufacturers			Dashboa	rd / Pip	e Ma	nufa	cturers
₩ BW Machines	+ A	dd Manufacturer 📑 CSV	🗴 Excel 💡 Help 😅 Refresh	n Data					
Pipe Manufacturers					Search:	Search	Keyw	ord	
Reports		其 Manufacturer Name	Created By	🜲 Manufacturer Status		Act	ions		
🗳 Users		APS	David Simons	Active		۲		0	â
📽 Settinas		Iplex Pipelines	Darren Poynton	Active		۲		0	â
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		Plasson	David Simons	Active		۲		0	â
	Showi	ng 1 to 4 of 4 entries		First	Previou	is 1	Ne	xt	Last



# Set up Projects / Jobs

Step 5, Click on Projects

#### Set Up Project Details

PEWELDBANK   FMS	S					<b>.</b> (	Darrei	n Poy	
🕜 Dashboard	Projects					Dashbo	), bard	Pro	jects
Projects									
BW Machines	+ Add Project	CSV 🔀 Excel	? Help 🛛 🕄 Refresh Data						
O Pipe Manufacturers					(				
🗠 Reports	🗐 📜 Project Name	Project Location	Head Contractor	Project Owner	Search:	Search Ke	ons	d	
😩 Users	11824	Australia	Run Energy	Run Energy	Active	۲	/	0	â
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	Showing 1 to 3 of 3 entries				First Previou	is 1	Next	L	.ast



# Reports

There are multiple reports and sort functions available





# Smartphone / Tablet User Guide



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# 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.

<b>₩ PEWeldBa</b>	nk
Username	
Password	
LOGIN	
FORGOT PASSWORD?	
DON'T HAVE AN ACCOUNT?	



## **Home Screen**

Operation is very easy to access via the Home Screen





# Smartphone / Tablet Menu Screens



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



# Click on menu item



# Select **Settings** to Edit Settings





# Fitting Hydraulic Transmitter / Transducer to Machine

There are multiple reports and sort functions available





# **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 can generally be easily 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.



Note:

This is the closing side of the hydraulic cylinder



# **Hydraulic Connection Continued**



**Stauff 20 test point** (this will be available from your local 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.





## **Bluetooth Pressure Sensor Setup**

How to setup and pair your pressure sensor to a smartphone / tablet.

#### \*\*Before starting ensure both 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 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



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









# **Bluetooth Temperature Sensor Setup**

How to setup and pair your pressure sensor to a smartphone / tablet.

#### \*\*Before starting ensure both 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
- 8 QR code

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









# **Bluetooth Setup & Pairing of Sensors**

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

#### 1. Click Dropdown Menu



#### 2. Click Settings



#### 4. Click Add New







N.B. you can only use sensor set with **PeWeldBank Fusion Logger** subscription



# **Bluetooth Setup & Pairing of Sensors Continued**

#### Pairing of Sensors

- Connect Pressure sensor to pressure to at least 2 bar.
- For the Temperature sensor holding the Surface Temperature Probe against heater plate (at least 40°c / 104°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 about 1 minute 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**

¥ 🔍 😯	🕅 🐨 📶 🔓 49% 12:46 AM
≡ Sensors	<b>₩</b> ₿
Sensor Type	Pressure Data Logger
Sensor Brand	PEWeldBank
Sensor Model	
Serial Number	30AEA4F3A62E
Firmware Version	V 1.3.3
	fu
	SAVE

#### Connected

🖻 🖞 🔧 🤣	🕷 🕅 💌 🖬 49% 12:46 AM
≡ Sensors	😰 P: 100%
<b>Connected</b> Pressure Value : 0.0 Bar Ambient Temp : 21.77 °C Humidity : 39 %	
Sensor Type Pressure	Data Logger
Sensor Brand	eldBank
Sensor Model	- With 11
Serial Number 30AEA	4F3A62E
Pressure Sensor Range	
Firmware Version	1.3.3
Calibra	ation Date
Most Recent Weld	ent welds

#### Check connected sensor



# 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

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## How to Subscribe

#### Go to PEWeldBank.com





# How to Subscribe - Payment Details

	0	2			
	Registration Details	Payment Details		ayment onfirmation	
		Payment			
	Feel free to choose	e your paymen	nt plan as pre	ferred	
					_
	PEWeldBank Fusi	on Loggei	r (1 User)	Package	
		Payment Term			Click on Yearly or
	O Yearly		Mon		Monthly
	Equipment	Price(AUD)	Quantity	Subtotal(AUD)	
	Bluetooth Butt welding Sensor	1500.00	1	0.00	
Packag	ge Fee :	1		AUD 480.00	
Payme	ent Term :			Yearly	
Total :				AUD 480.00	
Back				Proceed	Click Proceed
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Enter Pay	yment Details				
	Payment Met	hod			
	i dymene men				
Amount	: AUD 40.00				
Card Nu	ımber				
Card	Number	<b>VISA</b> Ma	asterCard		
Expiry D	Date				
Mon	/ Year				
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Back	Proceed		C	lick Proceed	



## How to Review Welds on Smartphone or Tablet





# 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, such as a fabrication workshop.

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.





# Troubleshooting

Pressure Sensor							
Problem	Reason	Solution	Page #				
	Sensor connected to	Make sure it is connected to closing side of					
	wrong side of	hydraulics (this is generally the cylinder inlet	16				
	hydraulics	closest to middle of machine see photo)					
	Sensor not connected	Connect orange cable to transducer and					
	to hydraulic with	sensor and increase pressure, fast flashing	16-17				
	pressure	should start within 10 seconds					
No fast flashing	Orange cable						
blue status	connected to wrong	Connect orange cable to Port "1" on sensor	17				
light on sensor	port on sensor						
	Battery low or flat on	Charge sensor until Charging light shines	10				
	sensor	green	19				
		Check operation of sensor by momentarily					
		removing and replacing battery, Blue Status	21				
		light should flash fast					
Zero pressure							
reading on		Check above information					
smartphone							
	Bluetooth turned off	Ture Rhistoph to on in smartphone					
	in smartphone	rum braetooth to on mismartphone					
	Camera disabled	Allow camera settings in smartphone					
		Check in PEWeldBank on smartphone settings					
		> sensors, your sensor should be listed here					
l have fast	Not paired	(check that the number matches number on	20 / 22				
flashing blue		sensor) delete any sensor not currently					
light but wont		required by holding finger on text					
connect to	Battery low or flat on	Charge sensor until Charging light shines	10				
smartphone	sensor	green	19				
	Battery low or flat on	Charge cmattehone					
	smartphone	charge smartphone					
	Sensor not connected	Chark shows information	16				
	to pressure	check above information	10				
Zero pressure							
reading on		Check above information					
smartphone							
Pressure							
reading on	Machina Causa ia	All PEWeldBank transducers are highly					
Machine Gauge	machine Gauge IS	accurate and calibrated when packed, if					
is different to	probably incorrect	concerned have your gauge tested.					
smartphone							



# Troubleshooting

	Tempe	erature Sensor	
Problem	Reason	Solution	Page #
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	21
	sensor	green	19
	Surface Probe not connected to correct port on sensor	Connect Surface probe to "Fixed" port on sensor	19
		Check operation of sensor by temporally removing and replacing battery, Blue Status light should flash fast	21
l have fast flashing blue	Bluetooth turned off in smartphone	Turn Bluetooth to on in smartphone	
	Camera disabled	Allow camera settings in smartphone	
	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 by holding finger on text	20 / 22
connect to	Battery low or flat on sensor	Charge sensor until Charging light shines green	19
Smartphone	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	21
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.

Polysmart 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; however, it may be more economical to replace this item annually or bi-annually.

**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, however, it may be more economical to replace this item annually or bi-annually.

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 Polysmart for this service.



# Distributors



Designed and assembled in Australia by Polysmart Pty Ltd

#### Available from:

#### Australia, New Zealand, Asia & Europe

Polysmart Pty Ltd 11-15 Martha St Seaford, Victoria 3198 Ph: +61 (0)418108101 Email: info@peweldbank.com.au www.peweldbank.com

#### North America

Bryan Hauger Consulting, Inc. 5485 Conestoga Court, Suite 200 Boulder, Colorado 80301 Ph: +1 303-747-6533 Email: bryanhaugerconsulting.com www.fusionpipeexperts.com

#### North America

Harvey Svetlik, P.E. Global Polyethylene Pipe Consultant Harvey Svetlik Consulting 1006 Mustang Crossing Dr. Pipe Creek, Tx 78063 Ph: +1 817-501-9260 Email: hs@pipeconsulting.com