

# FLOWPULSE HANDHELD CONTROLLER

Non-invasive flow monitoring  
on the move

**Designed for the FlowPulse sensor,  
directly providing instant feedback  
on flow monitoring and pump  
performance.**

FlowPulse Handheld Controller is an indispensable tool for portable flow monitoring and data acquisition. The unit connects to pre-installed FlowPulse sensors or operates as a self-contained kit, with instant feedback via its color screen. For true portability, the Handheld Controller will power a FlowPulse sensor directly, monitoring flow rate to assess system or pump performance.

## **Read & Store Instantaneous Flow Rate**

Pulsar Measurement's Handheld controller detects the FlowPulse sensor when the on-board RS-485 line is connected, auto loads operating parameters, and reads the instantaneous flow rate. The color screen and simple programming allow the operator to view traces and recorded data files as well as loading and saving parameter files. The ergonomically designed Handheld is rated at IP65.

## **Data Logging & Functionality**

With 3.8GB of onboard memory, the Handheld provides storage for nearly a year's worth of data (around 120 days worth of flow traces) at 10-second recording intervals. The sleep/wake function allows for extended logging, with data downloaded via USB to Pulsar FlowPulse PC software and .csv file for further analysis.



## **THE RIGHT METER FOR**

- Identify Inefficient Pumps & Under-performing Assets
- Identify Faulty Non-return Valves
- Record Flow for Analysis & Comparison
- Monitor Pump System Performance

## **Options & Features**

The FlowPulse Handheld Controller is available as a standalone unit to use with existing FlowPulse sensors or can be purchased as a complete kit with FlowPulse and a convenient carry case. The unit is mains or battery operated and even comes with an in-car charger for your convenience.

### FlowPulse PC Software

To accompany the FlowPulse sensor and various package options, the FlowPulse PC software has been designed to allow users to be able to control, set up, and monitor FlowPulse and it's performance.

Using this platform, users can see at a glance the flow rate in units of their choice. Signal strength and confidence level can be monitored throughout the application, and the raw signal can be displayed. The RS232 Modbus connection allows the FlowPulse to be set up through an intuitive and straightforward set of parameters, while real-time flow information can be read and recorded.

FlowPulse is simple to set up. All that is required once FlowPulse is in position and powered is to provide the internal diameter of the pipe. Other simple parameters can be configured to allow for user-defined options such as the metrics of measurement including flow and time units to be displayed.

'Signal Strength' is a measurement of the total strength of the returning echoes from the interior of the pipe. 'Confidence' is, as the term suggests, a measurement of how sure FlowPulse is of the measurement and is an indication of the consistency of the flow rate. Confidence will increase the longer that FlowPulse is installed.

FlowPulse PC Software is free-issued with FlowPulse and requires no further licensing or equipment to run, other than the RS232 cable - available from Pulsar Measurement if required.

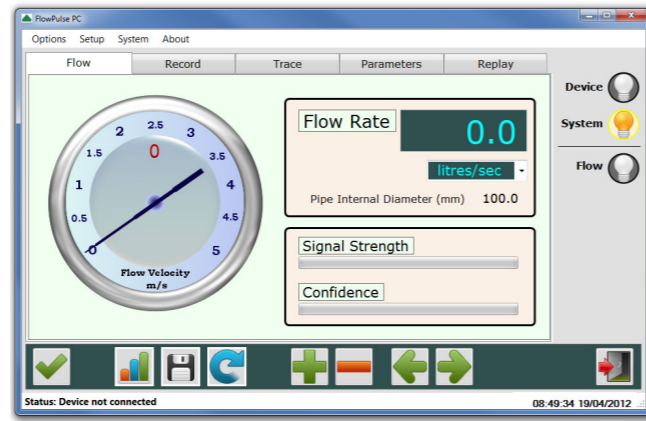
### Service & Installation

Our award-winning products are favored worldwide due to their reliability and easy menu-driven set-up.

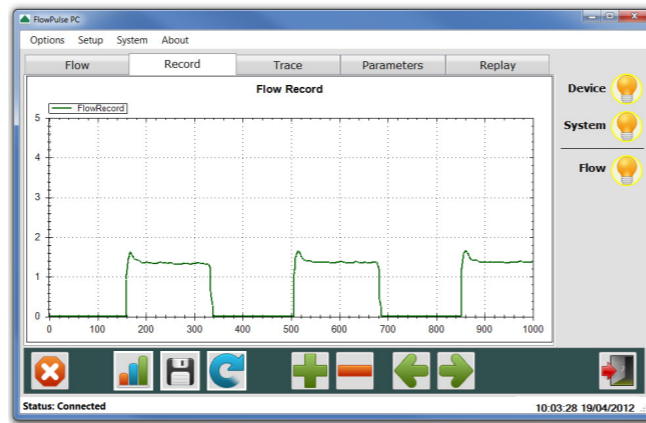
All products from Pulsar Measurement are designed to be easily installed and set up, but if you are unsure of your installation, our service engineers are ready to assist you. From telephone and web support to onsite commissioning and on/off-site product training, we will ensure that you get the most out of your product and sales experience with Pulsar Measurement.

If you are unsure of your application requirements or which product is right for you, our technical teams can advise you on the best solution to your application and technology requirements, making sure that you get the most accurate and reliable readings every time.

For more information on our service offerings, please visit the website or contact one of our head offices.



FlowPulse PC Software Flow Rate Screen



FlowPulse PC Software Flow Trend Screen

### Technical Specifications

#### PHYSICAL

**Controller Body Dimensions:** 210 mm x 125 mm x 50 mm (8.27 in x 4.92 in x 1.97 in)

**Weight:** Nominal 0.6 kg (1.3 lb)

**Enclosure Material/Description:** Polycarbonate UL94 V2 rated, with weather-proof connectors

**Screen:** 3.2 in TFT LCD

**Supplied Cable Length:** 2 m (9.8 ft) minimum

#### ENVIRONMENTAL

**IP Rating:** IP65 (Enclosure and Connectors Protection)

**Max. & Min. Temperature (Electronics):** -20 °C to +60 °C (-4 °F to +140 °F)

**Max. & Min. Temperature (Battery Charging):** -20 °C to +40 °C (-4 °F to +104 °F)

**CE Approval:** Listed in the Certificate of Conformity within the manual

#### PERFORMANCE

**Accuracy:** ±0.25% of the measured range or 6 mm (0.24 in), whichever is greater ±2 mm (0.01 in) for dB R16 mmWAVE RADAR

**Resolution:** ±0.1% of the measured range or 2 mm (0.08 in), whichever is greater

**Max Range:** Dependent on application and transducer, maximum 40 m (131 ft) dB40

**Min Range:** Dependent on application and transducer, minimum zero dB MACH 3

**Rate Response:** Fully Adjustable

#### DATA LOGGING

**Storage Media:** Internal flash memory

**Storage Capacity:**

- 3.8 GB, 3.2 million entry without trace
- 800,000 entries with trace

**Storage Format:** PC files

**Storage Access:** File transfer to PC via USB — no driver required

#### OUTPUTS

**Analog Output:** Not available

**Digital Output:** Half Duplex RS485 to sensor, USB connection to PC for file transfer

#### PROGRAMMING

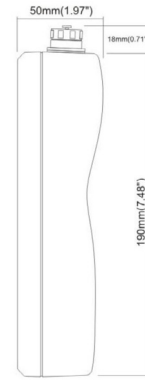
**Programmed Parameter Integrity:** Via non-volatile RAM

## SUPPLY

<b>Rechargeable Battery:</b>	11.1 V DC Li-ion cells
<b>Battery Duration:</b>	4 to 5 hours
<b>Charging Methods:</b>	Mains charger, 12 V DC at 2 A. In-car charger
<b>Power Supply:</b>	12-18 V DC
<b>Power Consumption:</b>	<ul style="list-style-type: none"><li>• 3.5 W at 12 V not charging,</li><li>• 15 W at 12 V when charging</li></ul>



FlowPulse Handheld Controller Front Drawing



FlowPulse Handheld Side Drawing

## Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia allow us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

For more information, please visit our website:

[www.pulsarmeasurement.com](http://www.pulsarmeasurement.com)



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