

# Rugged Portable RPF 400

The Rugged Portable  
Ultrasonic Flow Meter  
for the Water Industries



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## The Ideal Portable Meter Solution for the Water Industry

Designed & manufactured to be robust, light weight and long life for the needs of the Water Industry. The Senapsis RPF 400 is the ideal solution for many temporary flow metering requirements found in the water distribution sector and adjacent industries.

The RPF 400 offers a precise bi-directional flow measurement over a wide range of high and low flows. We pair and match the sensor transducers to each unit which helps ensure higher accuracy and a superior zero stability.

The RPF 400 comes as standard with IP68 sensors, making it the ideal combined solution for ever increasing tough environments.

The RPF 400 is the ideal quick fit solution for small and large water pipes in existing water networks. Its non-invasive and easily clamps on to the water pipe, with a range of quick fit clamping solutions for varying pipe sizes. The RPF 400 has unrivalled battery life in low power logging mode giving up to 400 days of logging

“Reliably refined by over 25 years of experience”



# Rugged Portable RPF 400

## The Main Advantages

- Non-Invasive, Non-Corrosive, Noncontact – Will not damage critical pipe infrastructure over time (No Galvanic Action)
- Easy to use with corrosive liquids – Does not contaminate sterile liquids
- Does not obstruct flow – Cannot break off in fluid damaging other critical infrastructure such as pumps
- Easy and quick to install – Do not need to carry out engineering works to cut, or drill pipe
- Can be setup and running in 5 mins
- Fast sampling rate – Increased Accuracy
- Very Low Power – Up to 400 days of logging
- No moving parts – to fail or require maintenance

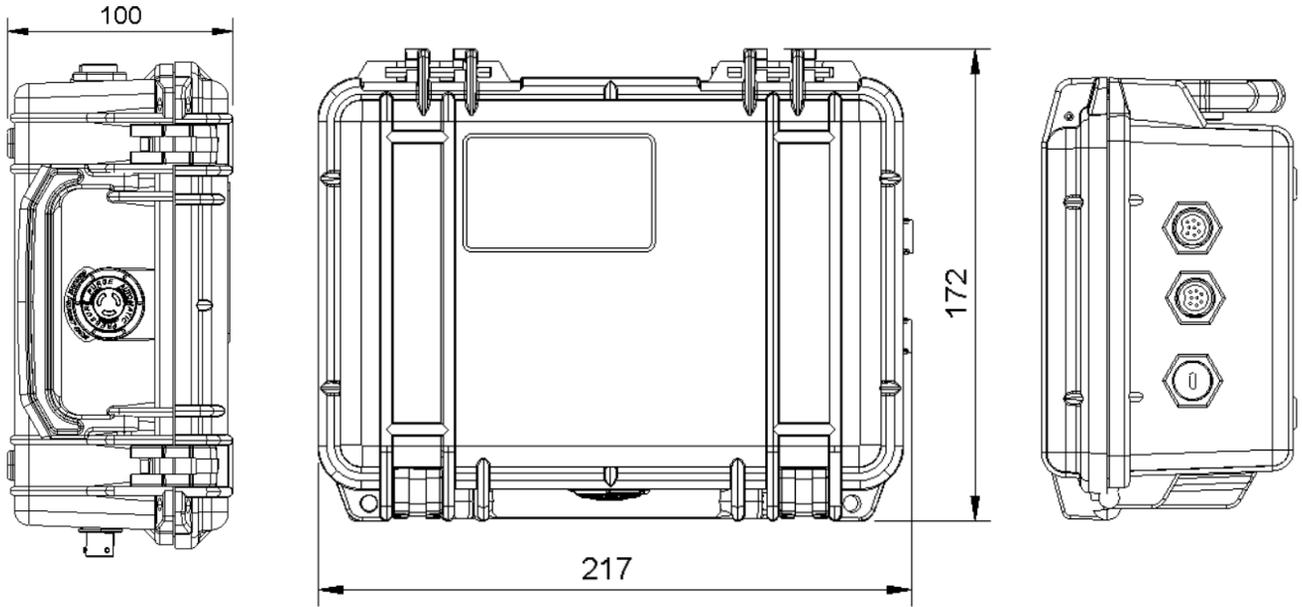
## Applications:

- District Water Monitoring
- Energy Flow Surveys
- Portable Water Treatment
- HVAC Audits
- Leakage Detection
- Flowmeter Verification
- Filter Sizing
- Pump Verification
- Fire Systems Testing
- Boiler Testing & Optimisation
- Phase Detection (E.g. CIP Evaluation & Control)

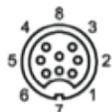
## Technical Data

No of Input Channels	1 (2 Sensors)
Pipe Diameters	15 mm to 5,000+ mm
Input Options	Flow Sensors, Thickness Gauge, Temperature Sensors
Accuracy	± 1-2% of Reading
Flow Velocity Range	Up to 25 m/sec
Low Power Mode	Yes
Battery	75W/Hr. 3.7v 20.4Ah
Input Supply	5v USB charge & measure
Outputs	RS232, 4-20mA, USB, Relay (Pulse/Freq)
Temperature Rating	-40 to +120 °C (Sensors) -10 to +50 °C (Meter Enclosure)
Logging	1 per 10 Min – 400 Days 1 per 30 Sec – 100 Days 1 per Sec – 5 Days
IP Ratings	IP65 Meter Enclosure, IP68 Sensors

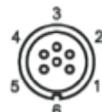
# Mechanical Data



# Connections Data



C1 (RS232, Relay, 4-20)



C2 (options)



C3 (USB)

- 1 Relay -VE
- 2 Relay +VE
- 3 RS232 RX
- 4 RS232 GND
- 5 4-20mA -VE
- 6 4-20mA +VE
- 7 No connection
- 8 RS232 TX

• Used for Optional Accessories

- Power
- Charge battery
- Download to Computer

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