

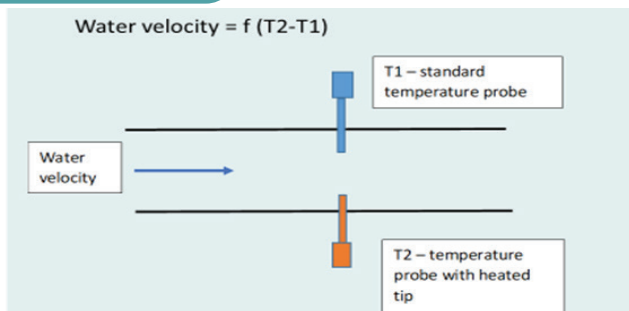
Flow Bro™

thermal flow meter for water

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TECHNOLOGY

- Flow rate measurements on pipelines
- Pump station flow meters

→ PRINCIPLE



→ DATA

- Cable or wireless networking, Modbus TCP protocol
- Embedded webpages and csv log files, viewable on any connected browser
- Data stored in registers for easy retrieval to SCADA or Cloud

→ HOT PROBE

- Connects via 1 inch (25 mm) gate valve
- Insertion into flow up to 400 mm
- Safety strap for pressures up to 40 bar



→ SPECIFICATION

- Water velocity range: 0.2 to 4 m/s
- Pipe diameter: 65 mm to at least 5 metres
- Accuracy: < 1% with established flow profile
- Repeatability: 0.5%
- Water temperature range: 0 to 40°C
- Maximum pressure: 40 bar g

→ FLOW PROFILE

- Upstream 5 pipe diameters
- Downstream 2 pipe diameters

→ PROBE IMMERSION

- Cold probe: 50 to 60 mm
- Hot probe: 50 to 400 mm into flow, depending on pipe diameter

→ INSTALLATION

- Two tapping points, fitted with gate valves as follows:
 - Hot probe 25 mm (1 in) diameter
 - Cold probe 25 mm (1 in), 20 mm (3/4 in) or 15 mm (1/2 in) diameter

→ COMPONENTS

- 1 * 'Hot' temperature probe, stem diameter 9.53 mm, stem length typically 470 mm (can be longer for larger diameter pipes)
- 1 * 'Cold' temperature probe, stem diameter 9.53 mm, stem length typically 355 mm.
- 2 * probe cables (typically 3 to 10 m long) from the temperature probes to the nearby enclosure
- 1 * Enclosure with microprocessor and power supply. The power supply can be mains or solar/battery (the latter usually supplied locally)
- Cable or wireless communications provided locally. Modbus TCP protocol.

→ POWER REQUIREMENT

< 12W; Voltage 110 / 230 VAC, or 12 / 24 VDC, e.g. from solar power



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ROBERTSON TECHNOLOGY Pty Ltd
WESTERN AUSTRALIA
<https://www.robertson.technology>

REPRESENTATIVE DETAIL :



Unit 2, Buckingham Drive,
Wangara, WA 6065
Australia



Tel: +61 (0)8 9300 0844
Email: info@robertson.technology