

Metron4 + MetronView

Connect your 4-20mA Tank Gauges to the Cloud

The Metron4 web logger and MetronView + TankPortal cloud software from Powtechnology provide advanced solutions for reliable remote access to your industrial/commercial fuel tank gauge data.

Compatible with VEGASYS, O.L.E tank gauges, and other 4-20mA devices, these tools offer remote access to near real-time fuel stock information, customisable alerts, and advanced data management capabilities. .



Key Features and Benefits:

- Works with any 4-20mA tank gauge/Sensor (VEGASYS, O.L.E etc)
- Sends data via the included 4G Any-Network EU Roaming SIM
- Hourly, 10-minute or 5-minute data transmission options
- Access Live and historical tank gauge data via the MetronView portal from any internet-enabled device
- Map views for clients with multiple site locations
- Automatic email alerts for threshold breaches, bund/overflow alarms and communications failures
- API capabilities for instant data-sharing with external systems

Specifications:

Inputs	4 (4 – 20 mA, 0 – 10 V DC sensors or volt free contacts). Expansion cards: 5 channel pulse (volt free, 10 Hz max.) & RS232 / RS485 (contact Powelectronics regarding protocols).
Outputs	Optional 2 relay outputs controlled either remotely or when threshold breached.
Communications	GSM (4G (CatM1 / NB1) with 2G fallback – worldwide frequencies).
Data Logging	80 per channel, first in first out.
Power Supply	6 – 24 Vdc
Sensor Excitation	Will provide power to sensors (5 V or 21.6 V, 31 mA max.) for a programmable length of time.
Environmental	IP67, -20 to +65°C.
Programming	Normally remotely from MetronVIEW or locally via USB (Windows software free of charge from Powelectronics. Mini USB not provided by Powelectronics).

Why Choose the Metron Solution?

- Real-Time Monitoring: Access near real-time fuel stock data for informed decision-making.
- Custom Alerts: Set up email notifications for re-order levels, overflow alarms, and more.
- Easy Installation: Simple setup with 4G-ready connectivity and remote configuration.
- Versatile Compatibility: Supports VEGASYS, O.L.E tank gauges, and other 4-20mA devices.
- Secure Access: ISO27001 accredited, ensuring high data security standards.
- Advanced Management: Multi-tiered user roles, and API integration for seamless data access and control.

Programmable System Parameters	Programmable Input Parameters
Wake up interval (min: 1 min, max: 24 hr)	Type (analogue or digital)
Transmit interval (min: 5 min, max: 24 hr)	Tag name
Modem state (including idle, transmit on power up, pollable)	Units of measure
	Zero & span (scaling) and linearisation
Antenna selection (internal or external)	Alarm thresholds (10 high (rising) and 10 low (falling))
Synchronisation time	Call out delay
Transmission window	Sensor excitation time and settling voltage

QUICK START GUIDE

01. Unpack & Open Up the Metron4



Place the unit on a flat surface and loosen the 2 nylon screws in the bottom corners to open.

Allen key required.

02. Mount the Metron4



Use the 2 mounting holes to screw the Metron4 down onto a flat surface.

Avoid mounting inside metal cabinets or underground (could reduce signal).

Ensure blanking plugs are fitted over empty glands.

03. Connect the 4-20mA inputs & Power:

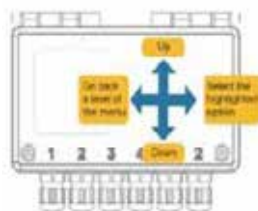


Run the 4-20mA signal cable(s) and power through the glands. Unplug the green connector(s) and wire in.

Plug the connector(s) back into the correct input channel and tighten the gland. Ensure the cable is through the gland.

Plug in a 6-24vDC power source (sold separately).

04. Force Send the data to the MetronView platform



Press any button to wake the Metron4. Press left for immediate reading (config. dependent) or enter PIN (1234) and press right after the 4th digit to enter the homepage.

Move down to Force Transmit and right to select. Watch the progress bar and wait for the unit to transmit. Once complete, data can be viewed on MetronView. The unit will countdown for 45 seconds, then enter Run Mode. The screen will turn off.

05. Programming



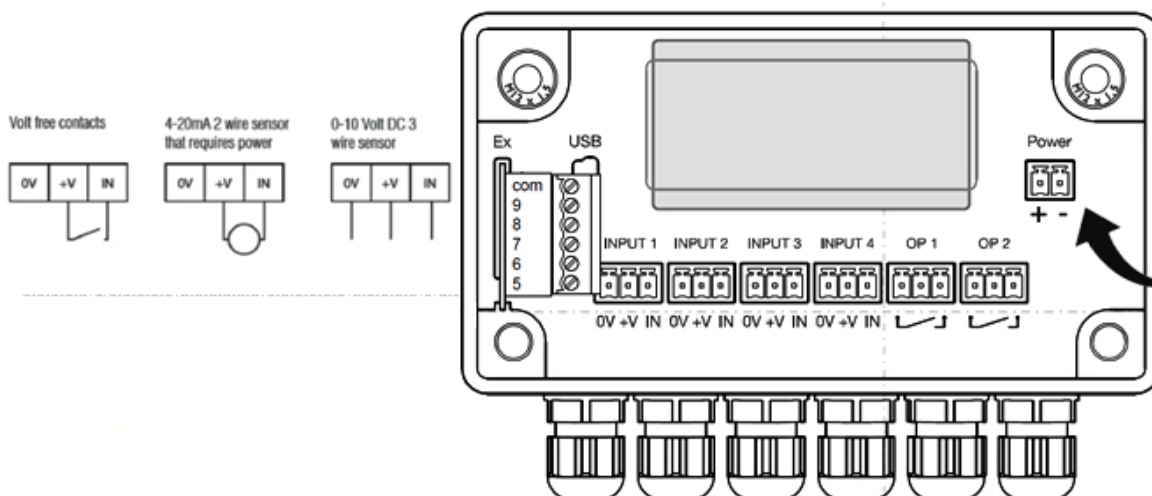
Units are typically remotely programmed by PFS Fueltec/POW Technology on your behalf. It is possible to change how often readings are taken & sent and alarm thresholds for each of the input channels.

06. View Data



Login credentials will have been sent by email.

Once logged in, you and your client will have full access to Live and historical tank gauge data.



Power connector. Be sure voltage suits the unit type.

See sticker next to SIM card.

Summary

The Metron4 and MetronView system provides advanced remote fuel tank monitoring with 4G connectivity and real-time data access. The Metron4 supports up to four 4-20mA inputs, offering easy installation and remote configuration. MetronView delivers customizable dashboards, flexible data transmission, and robust alert systems, ensuring efficient and secure tank management.