## Site Sentinel®

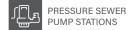
High performance, Cellular industrial data logger + RTU





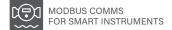












## P2-002

The P2 is an ultra-compact, industrial-focused variant of the Site Sentinel® data logger and RTU family, providing highly-reliable, direct-to-host data monitoring in a single package.

The Site Sentinel® P2's flexible device configuration enables the measurement of a variety of analog and digital signals. This data is stored internally on non-volatile flash memory with upstream communications provided using an internal 4G cellular modem, permitting use on CAT-M1 and NB-IoT networks worldwide.

The device is housed in a very low-profile, robust enclosure supporting a variety of installation options, including DIN rail compatibility and flat-panel mounting.

Additional communications port provides Modbus Master communications capability. User configurable Modbus table permits download of pre-defined or ad-hoc Modbus data profies to support 'smart' downstream devices such as flowmeters, power meters and water quality probes. Remote configuration and device management is supported via leading industry SCADA applications, remote firmware download capability is provided via FTP file transfer.

The P2 suits a wide range of industrial applications, such as data logging of remote sites, lift station monitoring, tank level and flow recording, pipeline cathodic protection monitoring and integration with pressure sewer pump stations.



## **Technical Specifications**

General

Supply Voltage 9-36V DC (isolated supply input)

Current Draw 80  $\mu$ A sleep, 10 mA awake, 200 mA cell communications, 2 A (peak) cell network detect, (measured at 12V DC)

Internal - Year, month, day, hour, minute, second, Automatic DNP3 time synchronisation from DNP3 master, Real Time Clock

Automatic cellular network time sync when using FTP data export mode

Temperature -20°C to +85°C Celsius

Humidity 0 to 90% relative humidity, non-condensing

Windows based Configurator M+ configuration software, Remote device management via DNP3, Programming

Remote firmware download via FTP, local programming port, live local diagnostics

Mounting 132.6mm (w) (inc mounting feet) x 26.0mm (h) x 82.7mm (d), DIN Rail mounting clips provided

**IO Interfaces** 

2 x dry-contact binary inputs, each input supports pulse counting, Digital Input

up to 3Khz (sleep/wake mode dependant), Forward/Reverse/Nett Totalisers with 32-bit rollover

2 x 0-20 mA, 0-2.048V DC, 0-5V DC (user selectable, per channel), **Analogue Input** 

15 bit resolution (non-isolated), 4x user-configurable alarm limits per channel

**Digital Output** 2 x SPDT relay outputs, dry contact outputs, 24V DC, 2A contact ratings per output

System Input Internal measurement of Cell Network RSSI, RTU temperature, RTU battery voltage and session status code

Serial Comms 1 x Modbus Master 2-wire RS485 Serial Port (screw terminals)

**Telemetry** 

Supports World-wide 4G/LTE Cat-M1 / NB-IoT Bands: B1, B2, B3 (1800 MHz.), B4, B5, B8, B12, B13, B18, B19, B20, 4G Cellular

B25, B26, B27, B28 (700MHz.), B66, B71, B85. Class 3 Output Power (+23dBm)

Antenna External SMA female connector

SIM Card 1.8 and 3V UICC (Standard size SIM card)

**Data Protocols** DNP3.0 Slave unsolicited / polled mode, FTP data export

True TCP support to DNP host (supports three Master IP addresses) Host Support

CHAP or PAP authentication, SIM credentials, configurable username, password and APN, built in IP firewall, Security

512-Bit AES Encrypted firmware download

**Approvals** 

Build RoHs

Standards RCM (AUST/NZ), EMC compliance, other export standards on request

Production Proudly Made in Australia

**Factory Accessories** 

A comprehensive range of factory manufactured or sourced accessories to ensure reliable and swift solution Accessories

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