



SITE SENTINEL® P1

High performance, low cost data logger + DNP3 RTU

PRODUCT HIGHLIGHTS

The P1 is the 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® P1'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 3G-compliant cellular modem. Host compatibility is ensured with integrated DNP3.0 protocol support.

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

Additional communications ports provide DNP3.0 Slave and Modbus Master communications capability. Remote configuration and device management is supported via leading industry SCADA applications.

The P1 suits a wide range of industrial applications, such as data logging of remote sites, tank level and flow recording, pipeline cathodic protection monitoring and integration with pressure sewer pump stations.

- Remote data logging
- Tank level monitoring
- Cathodic protection monitoring
- Pressure sewer pump stations



Compact and robust industrial-grade data logger, with integrated communications hardware and DNP3 protocol support.

TECHNICAL SPECIFICATIONS

GENERAL

Supply Voltage	9–36 V DC (isolated input)
Current Draw	20 mA nominal, 200 mA 3G communications, 2 A (peak) 3G network detect
Real Time Clock	Internal - Year, month, date, hour, minute, second Automatic DNP3 time synchronisation from host
Temperature	-20 to +65° Celsius
Humidity	0 to 90% relative humidity, non-condensing
Mounting	External Site Sentinel® programming cable (Part number XCAB013) Site Sentinel® Toolbox configuration software (Windows XP / 7)

IO INTERFACES

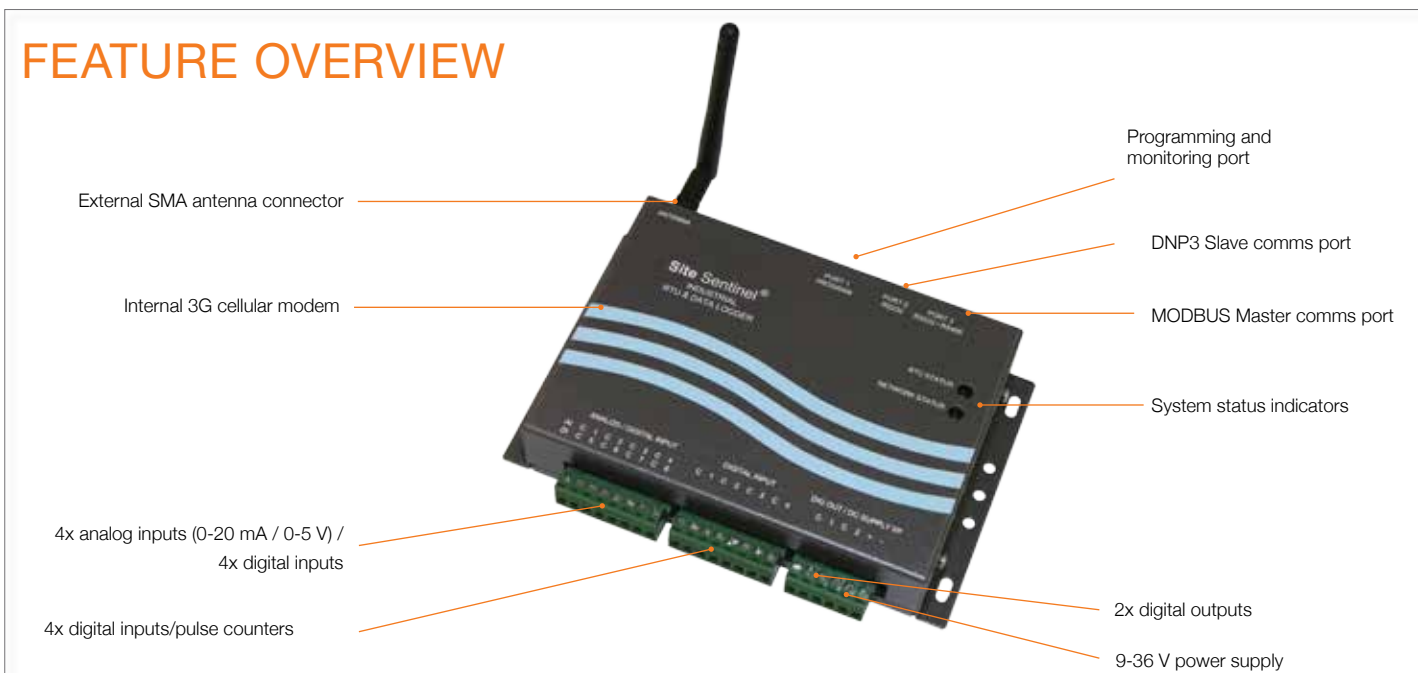
Digital Input	4x opto-isolated dry-contact binary inputs Each input supports pulse counting, 1KHz, 32 bit resolution
System Input	Internal measurement of 3G Network RSSI, RTU temperature and RTU battery voltage
Analogue Input	4x 0–20 mA, 0–5 V DC or digital input (user selectable, per channel), 15 bit resolution
Digital Output	2x SPST relay outputs; dry-contact outputs, common / N.O. contact pairs 24 V DC, 2 A contact rating per output
Communications	1x MODBUS Master RS232 / RS485 RJ45 (user selectable) 1x DNP3 Slave RS232 RJ45

TELEMETRY

3G Cellular	Supports 3.5G / HSDPA / UMTS SMS capability for remote diagnostics Tri-band 850 / 1900 / 2100 MHz Class 3 power output (+24 dBm)
Antenna	External SMA female connector
SIM Card	1.8 and 3V UICC (Standard size SIM card)
Approvals	Telstra NextG / Vodafone 3G / Optus 3G
Data Protocol	DNP3.0 unsolicited / polled support (refer DNP3 Device Profile)
Host Support	True TCP support to DNP host (supports primary / secondary servers)
Dual Comms	Supports 3G / serial as primary / secondary DNP3.0, slave comms in multiple configurations (future firmware)



FEATURE OVERVIEW



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