Point Green

IP68 rated, low powered Remote Telemetry Unit with DI and serial connectivity

Point Green is a compact Logger/RTU device with integrated battery, a 3G modem with GPRS fallback, internal and/or external antenna, digital and counter inputs, Modbus and SDI-12 master capability and a submersion sensor.

Point Green provides real-time remote monitoring of up to 3 sensors. It includes support for digital and counter inputs. The Point Green can also communicate with third-party serial devices over Modbus (using RS232 and RS485) or SDI-12. In addition to the multiple configuration options the Point Green offers local monitoring of battery voltage, cellular signal strength and ambient temperature.

The RTU offers a plug and play solution that minimises the need for additional site visits, with remote management functions including remote firmware upgrade enabling associated cost-savings. It can store thousands of records in memory for later retrieval by SCADA systems.

The Point Green was designed from the outset as a self-contained, low cost fit-and-forget unit for use in harsh and hazardous environments in remote locations. Its design exploits mainstream technologies which help to minimise costs whilst at the same time ensuring reliability and a long product life. The latest developments in low power technology are used, allowing the Point Green to derive all the power it needs (including sensor power, if required) from an internal battery pack. This, together with an integral 3G modem, ensures a long service life with low infrastructure costs.

KEY FEATURES:

- Real-time remote monitoring of up to 3 sensors
- Supports counter digital and serial inputs
- Powers external serial sensors
- Tri-band 3G modem with quad band GSM/GPRS fallback with auto switching internal and external antenna
- Internal battery with an expected life of 5+ years
- IP68 enclosure is submersible to 4 meters for 4 days
- Connects to Medina, DNP3 Masters
- Can operate in isolation uploading data to a FTP server
- Modbus master communicating over RS232 and RS485
- SDI-12 interface for third party serial devices
- Remote firmware upgrade
- Remote configuration
- Patented integral submersion sensor
- Rich telemetry functionality including dynamic trending/logging and intelligent alarm reporting
- Flexible integrated installation bracket
- Automatic external power source detection

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Technical Specification

Digital inputs	Up to 2 channels Volt free 32-bit counter support up to 100Hz
Serial inputs	RS232 RS485 full or half duplex SDI-12
Power	Internal battery pack Optional external battery pack DC power input (7.5-15V DC) External sensor power supply (12V DC)
Protocols	Medina DNP3 (Level 2+ elements of level 3 and 4) Modbus master (RS232, RS485 full and half duplex) SDI-12 master
Memory	16MB flash memory 512kB static RAM
Comms	Internal Tri-band 3G modem (850, 900, 2100 MHz) with quad band GPRS fallback (850, 900, 1800, 1900 MHz) Auto switching internal and external antenna
Local monitoring	Ambient temperature sensor (± 1˚C) Integrated submersion sensor Battery, loop, and external supply voltages (± 2%) Automatic external power source detection and switching Antenna selection and performance
Remote management	Remote firmware upgrade Remote configuration
Dimensions	156mm × 110mm × 112mm (excluding mating cables) 0.6 Kg (fully assembled)
Environmental	Operating temperature -20˚C to +80˚C Relative Humidity up to 95% non-condensing Protection classification: IP68 4m for 4 days

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Metasphere provides robust asset monitoring of time critical remote operations for operators to gain competitive advantage and meet regulatory compliance.