metasphere
A GRUNDFOS COMPANY

IMPROVED OPERATIONAL EFFICIENCY AND PERFORMANCE
SUITABLE FOR VARIOUS APPLICATIONS
VERSATILE, FLEXIBLE, INTELLIGENT

Point Blue is an intelligent, intrinsically safe, ATEX / IECEx certified, compact logger/RTU, enabling users to manage remote assets securely and reliably in harsh locations. With its unique software configurable I/O functionality, Point Blue is the versatile choice for use with various sensor technologies to deliver optimised network performance and efficiency.

Point Blue helps utilities to accurately monitor and manage remote assets in hazardous locations, thereby optimising network performance and efficiency in harsh environments.

Point Blue offers real-time monitoring of up to 5 sensors, making it a versatile and flexible option for use in wastewater and gas networks. Furthermore, support for multiple protocols, allows for easy integration with third-party platforms and devices.

The device offers remote device management including firmware upgrade and device configuration, thereby delivering a cost-effective solution that minimises the need for additional visits that saves time and money.

The Point Blue design exploits mainstream technologies to ensure reliability and longevity. Utilising the latest low power technology, Point Blue is available in two variants, Point Blue IoT (supporting NB-IoT/ Cat-M1) and Point Blue 4G (with 3G/ 2G fallback). This ensures Point Blue has a long service life with significant reduction in Total Cost of Ownership.

Point Blue enables utilities to proactively manage level and flow in sewers, manholes and Combined Sewer Overflows (CSOs). In addition, the device is perfectly suited for gas monitoring applications.

BENEFITS

Optimised network performance and efficiency

Reliably manage assets in harsh locations

Versatile, for use with multiple applications

Safe and improved sewer, manhole and Combined Sewer Overflow (CSO) performance

Safe and optimised gas monitoring performance

Flexible protocols for easy integration with third-party platforms and devices

Point blue

Analogue Inputs	Up to 4 channels Type: Active current, passive current, active voltage, passive voltage Current range: 0-20mA, Voltage range: 0-2V Active AI power supply (12V DC, 21mA per channel) Input impedance: 10.2kΩ Accuracy typically: ±0.5% (Max ±2%) Absolute maximum ratings: ±5VDC Resolution: 16-bits
Counter inputs	Up to 4 channels Volt free, Impedance: 50kΩ 32-bit counter support up to 100Hz
Digital inputs	Up to 5 channels Volt free, Impedance: 50kΩ
Power	Internal or external lithium battery pack
WAN Protocols	Medina DNP3 (Level 2+ elements of level 3 and 4) WITS DNP3 v1.1
Serial Protocols	Modbus master (RS232, RS485 full and half duplex) (up to 10 sensors) SDI-12 master (up to 10 sensors)
Memory	256MB flash memory and 512kB static RAM
Comms	4G variant: Internal 4G modem (B1, B3, B7, B8, B20, B28A) with 3G (B1, B3, B8)/ 2G (B3, B8) fallback. IoT variant: Multi-band NB-IoT/Cat-M1 modem (Bands 1,2,3,4,5,8,12,13,18,19,20,26 and 28) Auto switching internal and external antenna
Local monitoring	Ambient temperature sensor (± 1˚C) Integrated submersion sensor Battery, loop, and external supply voltages (± 2%) Antenna selection and performance
Remote management	Remote firmware upgrade and configuration
Dimensions	170mm × 110mm × 112mm (excluding mating cables). 0.6 Kg (fully assembled)
Environmental	Operating temperature -20˚C to +50˚C Relative Humidity up to 95% non-condensing Protection classification: IP68 4m for 4 days
Certification	⟨Ex⟩ II 1G Ex ia IIB T4 Ga (-20˚C ≤ Ta ≤ +50˚C) Atex: Baseefa15ATEX0045X IECEx: BAS 15.0027X

Jan-25
Subject to change

FIND OUT MORE!

If you would like to monitor wastewater levels, get in touch to find out how **POINT BLUE** can transform your network.

For general enquiries:

METASPHERE LTD

Millfield, Dorking Road, Tadworth, Surrey KT20 7TD

+44 (0)1737 846 100
info@metasphere.co.uk
www.metasphere.co.uk

For Australasian enquiries:

METASPHERE AUSTRALIA PTY LTD

Unit 2, 4 Avenue of Americas, Newington Business Park, Newington NSW 2127

+61 (0)299 567407
info@metasphere.net.au
www.metasphere.net.au