



## PD 804 COPP DPI GSM GPS

- Process Automation Controller
- Programmable in COPP
- P-NET via Light-Link, RS485 and Ethernet
- Dual 100 Mbit Ethernet switch
- USB Interface
- 256 MByte RAM, 64 MByte Flash, 32 KByte MRAM
- Battery Backup
- Micro SD-Card slot
- 4G Modem with 2 female SMA connectors
- High sensitivity GPS receiver with SMA connector
- Wide Temperature range
- Wide Power Supply range
- Low Power Consumption

### APPLICATION

A PD 804 DPI is used to provide programmable intelligence for the local cluster via various communication interfaces: P-NET Light-Link, P-NET RS-485 and two Ethernet ports using P-NET via UDP.

The device is programmable in COPP, which means that a part of, or complete automation application can be built and downloaded by the user. The program can make use of ready-made components to control and monitor any process or machine application, both locally in the device but also via the network interacting with other devices.

The PD 804 is equipped with a GPS interface and a 4G modem.

The GPS Navigation Receiver has been designed to provide GPS information similar to the general-purpose P-NET GPS Navigation Receiver PD 947.

The GPS interface in PD 804 features a high-quality GPS receiver with superior sensitivity and performance. The GPS connected to an external antenna is giving a high sensitivity GPS receiver for fast and accurate positioning that can track up to 22 satellites on 66 channels.

The modem is a global 4G modem that supports 4G/3G/2G network and data communication. Using the modem, the PD 804 can establish P-NET communication. All P-NET data communication to and from the PD 804 is encrypted and authenticated.

The modem in PD 804 COPP DPI is a LTE/GPRS/EDGE/UMTS/HSPA+ that supports LTE(4G)/UMTS(3G)/GSM(2G) networks with global coverage. The device contains 2 SMA female connectors to support dual antennas for 4G if necessary.

As well as P-NET communication, the PD 804 is able to send and receive SMS messages.

Ethernet interfaces, 4G/3G modem, and GPS receiver are optional for DPI devices in the PD 800 series. PD 804 is a fully-features device with all options included.

PD 804 is used with the BM 103 base module that provides the power supply connection and connection for all the communication interfaces.

The device can be locked to the base module by means of a screw.

### SPECIFICATIONS

#### Communication

1 x P-NET (RS485).....	IEC 61158 Type 4
1 x P-NET (Light-Link) .....	IEC 61158 Type 4
2 x Ethernet (Modular) .....	10 BASE-T / 100 BASE-TX
1 x USB .....	2.0 Micro-AB

#### Memory

Onboard FLASH .....	64 MByte
RAM .....	256 MByte
MRAM .....	32 kByte
Memory Extension (4 - 32 GByte) .....	Micro SD Card Slot

#### Power Specifications

Supply voltage nominal .....	24 VDC
Supply voltage range .....	12 - 32 VDC
Peak current (@ 24 VDC) .....	0.7 A
Typ. power consumption - Idle (@ 24 VDC) .....	2.5 W
Typ. power consumption - Load (@ 24 VDC) .....	5.0 W
Battery for Backup and UPS - External...Li Poly 3,7 V, 830 mAh	

#### Environmental Conditions

Operation temperature .....	-25 °C to +70 °C
Storage temperature .....	-40 °C to +85 °C
Relative humidity .....	< 95 % RH (non-cond.)
Protection class .....	IP40

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**BASE MODULE BM 103**

PD 800 series DPis and I/O devices are made up of two parts: The Terminal Base Module and the Electronics Device.

The Terminal Base Modules are snap-locked directly on a DIN-Rail and interlocks with neighboring modules to ensure stability.

The Terminal Base Module has two terminals for all the channels for connection to the process signals, respecting the demand for only one wire in each terminal, ensuring a safe and straight forward design- and installation process.

One of the two terminals is with the negative supply and the other is the input / output terminal. Having only one wire in each terminal enables that the wiring to/from process signals can be done directly, without the need for any further intermediate terminals.

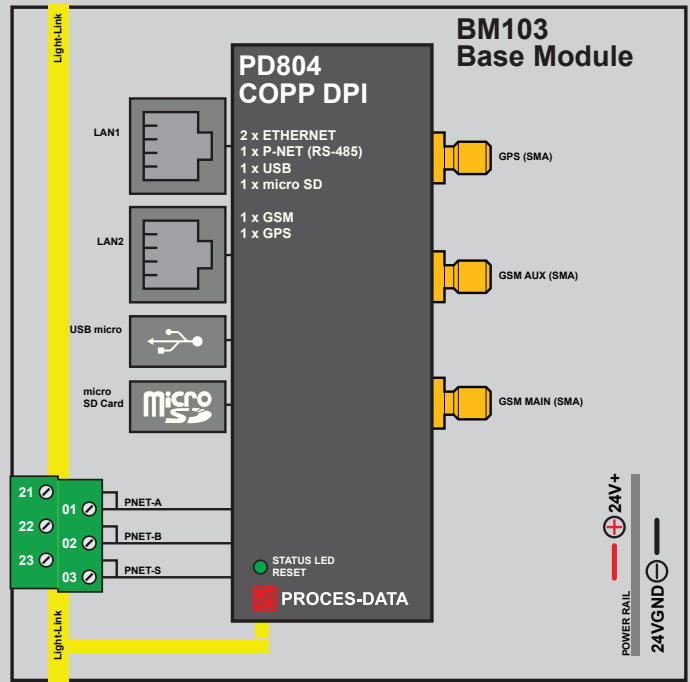
The Terminal Base provides also a power rail for connections to the power supply, as well as guides for the Light-Link interface.

The base module is available with either spring terminals or screw terminals.

A battery for backup and UPS is included for BM 103.

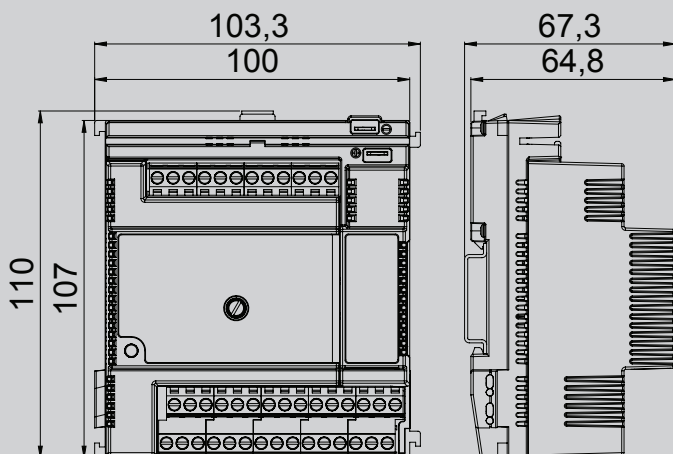
**Power Specifications**

- Current supplied by power rail..... Max. 5 A
- Current at spade connectors ..... Max. 10 A
- Battery for Backup and UPS ..... Li Poly 3.7 V, 830mAh



Rear View

**MECHANICAL (mm)**



**Mechanical Specifications**

- Dimensions (HxWxD)..... 66.8 x 103.3 x 110 mm
- Weight approx..... 330 g
- Vibration ..... IEC 60068-2-6 : 2007