PD 803 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, 16 MByte Flash, 32 KByte MRAM
- Battery Backup
- Micro SD-Card slot
- GSM Modem with SMA connector
- High sensitivity GPS receiver with SMA connector
- Wide Temperature range
- Wide Power Supply range
- Low Power Consumption

APPLICATION

A PD 803 DPI is used to provide programmable intelligence for the local cluster via various communication interfaces:
P-NET Light-Link, P-NET RS485 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 803 is equipped with a GPS interface and a GSM 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 803 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 GSM modem is a 3G modem that supports 2G/3G network and GPRS communication. Using the modem, the PD 803 can establish P-NET communication via GPRS. All GPRS communication to and from the PD 803 is encrypted.

As well as P-NET communication, the PD 803 is able to send and receive SMS messages.
Ethernet interfaces, GSM modem and GPS receiver is optional for DPI devices in the PD 800 series. PD 803 is a fully features device with all options included.

PD 803 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 fixed 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	16 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)	1.5 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

*Up to 70 °C @ max. 10 % load on GPRS communication

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BASE MODULE BM 103

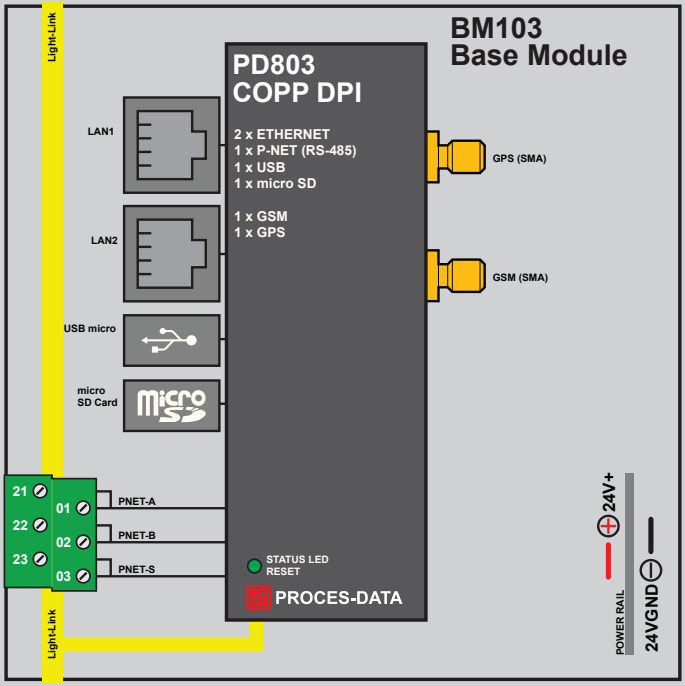
PD 800 series DPIs and I/O devices are made up of two parts: The Terminal Base Module and the Electronics Device.
The Terminal Base Modules are snap-locked directly on a DIN-Rail and interlocks with neighboring modules to ensure stability.
The Terminal Base Module has two terminals for all the channels 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.

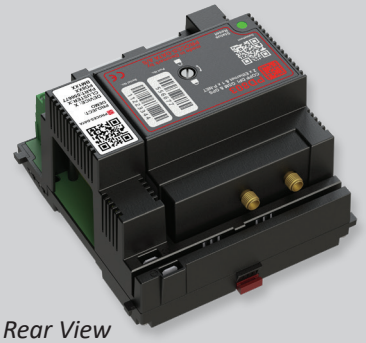
The Terminal Base provides also a power rail for connections to the power supply, as well as guides for the Light-Link interface.

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

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

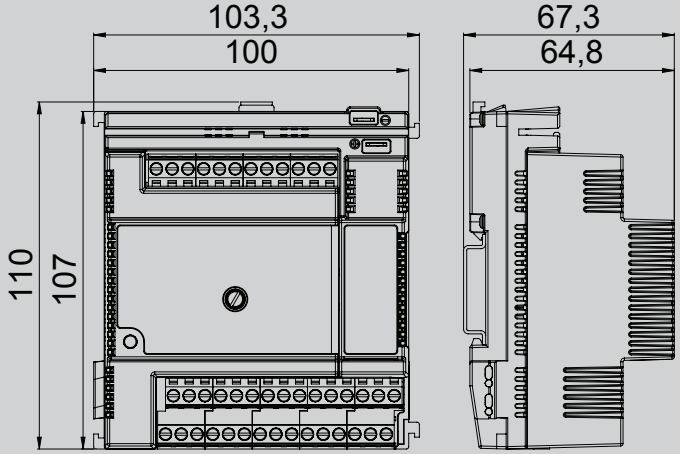


Power Specifications
Current supplied by power rail..... Max. 5 A
Current at spade connectors ..... Max. 10 A
Battery for Backup and UPS .....Li Poly 3.7 V, 830mAh



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

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