IMPAC SERIES 600
Converter Box with Profinet
ICB 600-PN

Quick-Start-Guide

Converter box with Profinet interface
ICB 600-PN

1 Technical Data

Deviations to manual for Converter Box with RS 232/485 interface

Interface:	Interface Profinet-IO with Baud rate 100 MBaud, Protocol TCP/IP *no RS 232/485 interface*
Power consumtion:	*approx. 350 mA at 5V USB-supply* *approx. 90 mA at 24VDC*

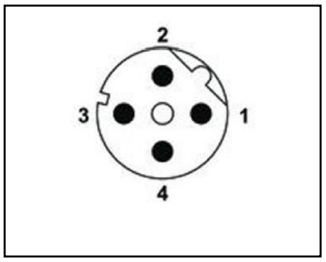
Part numbers:	*3 917 040 Converter Box with display – ICB 600-PN* *3 917 110 Converter Box without display – ICB 600-N-PN*

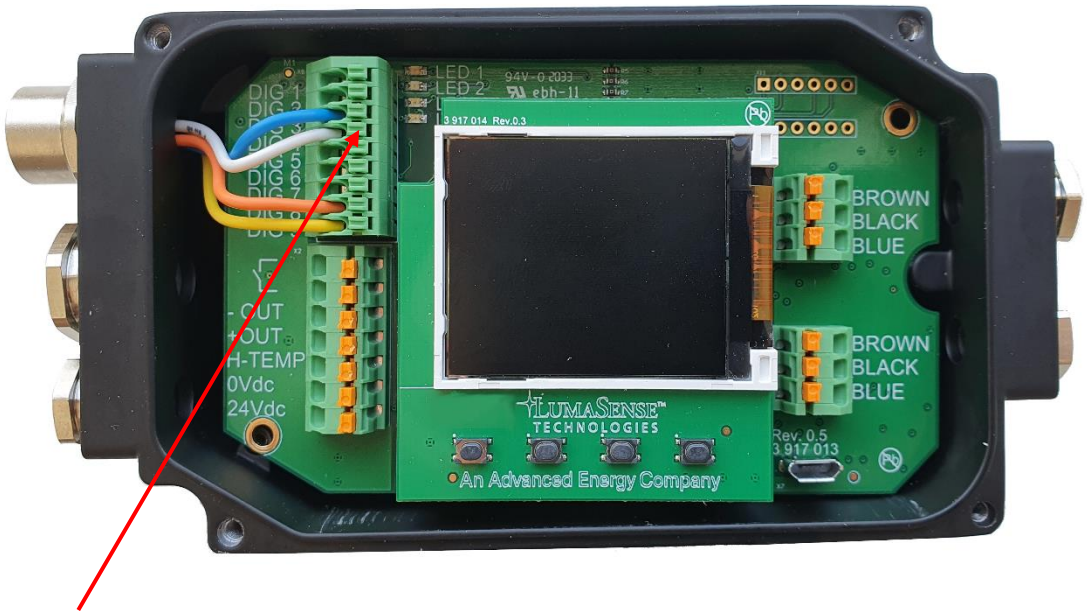
Connection and installation: see manual 57010228-00B

2 Connection

2.1 M12 Profinet pin assignment

Signal	Function	Wire color	Pin assignment
TxD+	Transmission Data+	Yellow	1
TxD-	Transmission Data-	Orange	3
RxD+	Receiver Data+	White	2
RxD-	Receiver Data-	Blue	4





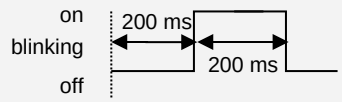
Meaning of LED´s:

LED 1: Error
LED 2: Status
LED 3: Link active
LED 4: No function

Error LED

Off	Communication ok
Blinking	Internal Bus failure, configuration problems or error at the Profinet initialization.

Network Status LED

Constant On	„Ethernet ok“, the communication between Master and Pyrometer is working and complete process data traffic is active.
Blinking	 In this state no process data traffic is possible. The system is in „Config-Mode” state and Profinet is initialized.

Link/activity LED

Off	No Bus connection
On	Connected to Bus, Ethernet-Link-Impulses found but no activity. Instrument is in a functioning network.
Blinking	Connection and communication working / active.

2.2 Connection cable

The maximum cable length allowed between two Profinet devices is 100 Meters. To connect Profinet devices, only use Ethernet-patch cables or crossover cables in CAT5e quality in connection with a M12 connector system (D-type).

Connection cable:	Shielded Twisted Pair Standard
Line:	Transmission properties per ISO/IEC 11801
Connection geometry:	M12 D-coded per IEC 61076-2-101
Protection class:	IP 65/67 (in connected state)

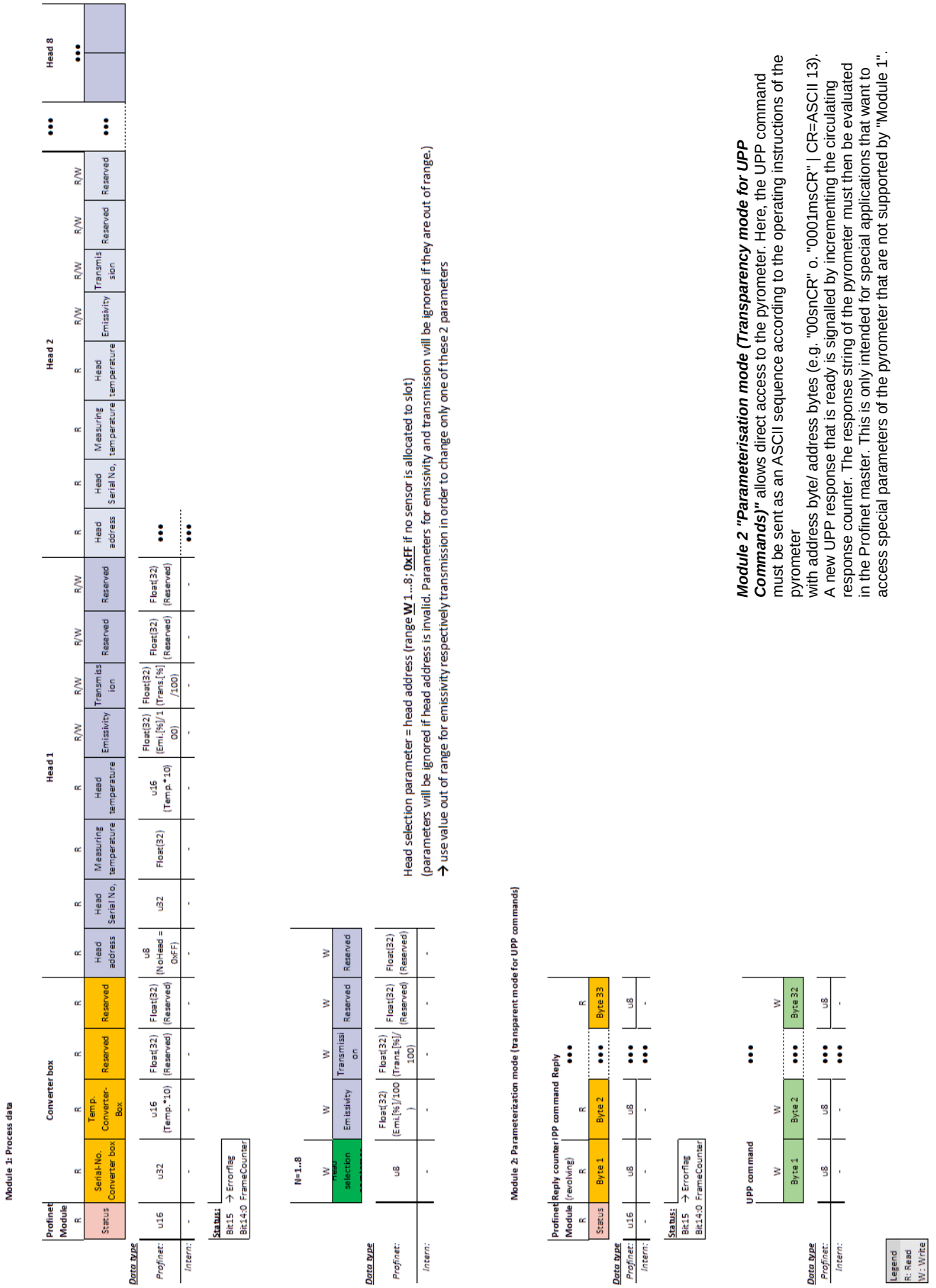
3 Profinet Interface

The description of the Series 600 Converter Box with Profinet will be provided to the Master in an ESI file. These generic XML files contain all required Slave respectively Master parameters required for an integration into a Profinet network. The required ESI file „GSDML-V2.3-Lumasense-Serie600-PN-YYYYMMDD.xml“ can be found on the provided USB flash drive. After the import of the file all relevant pyrometer data are available to the Master.

Ex works the Series 600 Converter Box has the following configuration:

- IP-address: 0.0.0.0 ➔ Changeable via Infra600 (WebServer call)
- Sub-Net mask: 0.0.0.0
- Device name: pyrometer

Figure: Structure of the PROFINET data modules



Module 2 "Parameterisation mode (Transparency mode for UPP Commands)" allows direct access to the pyrometer. Here, the UPP command must be sent as an ASCII sequence according to the operating instructions of the pyrometer
with address byte/ address bytes (e.g. "00snCR" o. "0001msCR" | CR=ASCII 13). A new UPP response that is ready is signalled by incrementing the circulating response counter. The response string of the pyrometer must then be evaluated in the Profinet master. This is only intended for special applications that want to access special parameters of the pyrometer that are not supported by "Module 1".