Lonbox® Series

WEB Server and Utility Data logger for LonWorks® with I/O Interface

Lonbox® PID4025 is an extended version of PID4000 with an I/O utility meter Interface. Many types of utility meters are possible to connect to the PID4025 WEB Server and/or the LonWorks® network.

PID4025 have an onboard serial communication port with build-in electricity meter protocol type EN61107. PID4025 reads all standard 2-wire electricity meters with the EN61107 protocol and make the data available on the Web server and/or the LonWorks® network. PID4025 is also available in a version with M-Bus protocol. The communication port is usable as current loop or RS232 interface.

PID4025 have 3 S0 inputs for interfacing of electricity, water and heat meters. The calculated meter values are presentable in a configurable unit type eg. m^3 or kWh. The impulses from the meters are counted and calculated using a programmable conversion factor. It is possible to determine the number of digits for the converted value and to configure and synchronise the start value. Values are stored in internal memory and are automatically stored at power failures.

The S0 inputs are also usable as normal digital inputs for visualization on the WEB Server as ON/OFF values and on the LonWorks® network as SNVT Switch variable.

PID4025 have an output for connection of an external relay. The relay is used to switch ON and OFF different devices such as electrical heaters and boilers.

Technical data	**PID4025**
LonWorks® Media	Twisted Pair TP/FT-10
Transceiver	FT-X1
Neuron-Chip	FT3120E4, 10MHz
Main processor	ARM 32-bit RISC
Prog. Memory	4 Mbyte Flash
Memory	8Mbyte SDRAM
Data memory	2 Mbyte Flash
Data Channels	200
Ethernet	RJ45 10/100 Mbit TCP/IP protocol
Serial port	1 pcs. RS232 Terminal and PPP protokol. 1 pcs. RS232 or power loop IEC1107
Input	3 pcs. Digital S0
Output	1 pcs. 20Vdc driver output. Max 100mA
Control indicators	Neuron state function, modem status, I/O status, Link and 100Mb in yellow LED. Green LED for supply.
Service switch	Neuron service Pin
Supply	12 – 30Vdc, 8 – 24Vac
Consumption	Max. with modem, 475 mA @ 24Vdc 425 mA @ 24Vac
Protection class	IP20
Enclosure size	9 modul Lonbox® DIN enclosure. 157 x 58 x 90+con. mm
EMC immunity	IEC 61000-6-2
EMC emission	EN 50081-2
Safety	EN 60950
Operating temp.	0 to +45°C
Storage temp.	-20 to +70°C
Versions:	
PID4025-DIN	Standard data logger.
PID4025-DIN-GSM/GPRS	With GSM/GPRS modem.

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