

Counter Module for LonWorks®

Lonbox® PPC4024 is a module for automatic meter reading (AMR) in LonWorks® installations.

PPC4024 is used in large installations where easy access to utility data is wanted but is also ideal in smaller remote reading tasks e.g. together with Lonbox® PID 4000 for remote access and control via GSM/GPRS and/or IP/Internet.

PPC4024 have 4 digital inputs for connecting potential free contacts, open collector outputs or S0 interfaces (DIN 43864). PPC2024 also have 2 digital outputs controllable via network.

The 4 inputs are utilized to count impulse signals which internally are converted to utility meter values. The utility meter values are possible to monitor continuously and to log on a Lonworks® network.

The calculated meter values are presentable in a configurable unit type e.g. m³ 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.

PPC4024 complies with LonMark International function profile for energy measuring (2201-10 Utility Meter).

The module is mountable on standard TS35 DIN rail (EN50022).

For easy access during configuration and service an extra network connection is located in the front of the module (3,5mm minijack).

Standard PC connection cable is obtainable from third party (Echelon).



Technical data	PPC4024
LonWorks Media	Twisted Pair TP/FT-10
Transceiver	FT-X1
Neuron-Chip	FT3120E4, 10MHz
Supply	12 - 30Vdc/10 - 24Vac
Consumption	Typical 15mA@24Vdc
Control indicator	Green LED for supply
Service indicator	Neuron state function, yellow LED
Service switch	Activate Neuron service message
Input	4 pcs.
- Type	Digital for potential free contacts
- Voltage	Max. 10 Volt DC
- Impedance	10 Kohm
- Impulse	Min. pulse 30 mS Min. interval 30 mS
Output	2 pcs.
- Type	Digital low-side switch
- Voltage	Max. 60 volt DC
- Current	Max. 1 Amp
Protection class	IP20
Enclosure size	4 module Lonbox® DIN enclosure 70mm
EMC immunity	EN50082-2
EMC emission	EN50081-1
Operating temp.	-10 to +55°C
Storage temp.	-20 to +70°C