

Analogue Input Module for LonWorks® Installations

Lonbox® PAI4024 is a module for measuring analogue values in connection with LonWorks® installations.

The analogue inputs on the module are designed with a flexible and configurable input stage. This makes the analogue inputs suitable for active 0...10V signals and measuring of resistor values from simple temperature sensors (PT1000/NTC).

The software application within PAI2024 is made according to the international LonMark standards. The sensor function enables configuration of network type and conversion of input value based on a linear relation or on a configurable curve.

Besides the sensor function the module also contains functions to process analogue signals. Among other treatment of limit value as high or low and various mathematical functions such as sum, difference and mean value.

The outputs are all controllable from the network but also possible to control by the build in functions for example when exceeding limit values.

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).

A LED is located on the front of PAI4024 for power supply and service indication.



Technical data	PAI4024
Lonworks® Media	Twisted Pair TP/FT-10
Transceiver	FT-X1
Neuron-Chip	FT3120E4, 10MHz
Power supply	12 – 30Vdc or 10 – 24Vac
Power consumption	Typical 15mA @ 24Vdc
Power supply indicator	Green LED in the front
Service indicator	Yellow LED in the front
Service switch	Activate Neuron service message
Input	4 pcs analogue
- Voltage	Max. 10 Volt DC
- Impedance	10 KΩ
- Resolution	10 bit
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
Drift temperature	-10 to +55°C
Storage temperature	-20 to +70°C