

Digital Input Module

4 isolated counter inputs (S0) DIN rail mount

The Lonbox® Series PIO2004 is an I/O module for LonWorks® based control networks.

PIO2004 has 4 S0-type optically isolated digital inputs. Typical use of the inputs is to convert impulse signals to a value that can be distributed onto the network. The data type can be configured to for example liters, kWh, etc.

The input impulses are counted and calculated using a programmable converting factor. The number of digits in the converted value can be configured, and any given value can be used as start value.

The counted values are stored twice every 24 hours in internal EEPROM, to prevent data loss in case of power failure.

The module is in a box for mounting on a standard M36 DIN rail (EN50022).

An additional mini jack (3,5 mm) network connection is placed in the front of the module, for easy access when making service on the network.

A standard cable for connecting a mobile computer to this service connection is available from Echelon.

PIO2004 is at the front supplied with LED's for indication of Power supply and for the Neuron service condition. In addition is a switch accessible for sending 'service pin' messages onto the network.

PIO2004 is supplied with a switch under the cover that can be used for detecting physical intervention into the module.



Technical spec.	PIO2004
Transceiver	FTT-10A
Neuron-Chip	3120E3, 5MHz
Supply voltages	12 – 30Vdc 8 – 24Vac
Power consumption	T5mA @ 24Vdc
Control LED	Typically Supply present, green
Service LED	Neuron state function, yellow
Service switch	Activate Neuron service pin
Input supply voltages	Min. 15 Vdc Max. 27 Vdc Consumption max. 60 mA @27 Vdc, all inputs short-circuited.
Numbers of inputs	4
Input type	Digital
Input ON consumption	> 5mA @RI 800 ohm @V=15Vdc > 10 mA @RI 800 ohm @V=27 Vdc
Input OFF consumption	< 1mA @RI 1 Mohm @V=27Vdc
Short circuit current	Max 15 mA / input
EMC immunity	EN50082-2
EMC emission	EN50081-1
Operating temp.	-10 to 55°C
Storage temp.	-20 to 70°C