



Product ID: IPex04

Category: Controller and Accessories

Controller and hardware Gateway for electrical boards with 4 I/O and different communication interfaces. Data Exchange by MQTT.

TECHNICAL SPECIFICATIONS

CPU	32bit@120MHz ARM microcontroller with 1MB Flash, 256KB RAM
Memory	Dataflash of 4 MB for data storage EEPROM of 128 KB for configuration data
Real time clock	External with battery
ADC	ADC 12 bits multiplexed to the 4 I/O
Watchdog timer (WDT)	Internal Watchdog included. External Watchdog available with the IPexCHD
Device configuration	Basic configuration with the embedded web server
Firmware updates	Through the embedded web server
LED indicators	3 status LEDs
Communication protocols	MQTT

I/O AND COMMUNICATIONS PORTS

I/O	4 configurable I/O by software such as: digital outputs, digital inputs (end of line checking available), analog inputs (by supply or current) and analog outputs (range 0-10V) Software-configurable analog input range such as: 0-10V, 0-20mA, 4-20mA (Optional 0-500mV, 0-1V, 0-1.25V, 0-2.5V, 0-5V)
Additional I/O	Not permitted. See model IPex16
Communications ports	2 x RS-232 1 x RS-485 1 x GPRS/NB-IoT/Cat M1 (Cat 1 Bis optional) communications socket 10/100Mbps Ethernet connection *GPS integrated into the communications module (GPS antenna required)

Analog input calibration	All the analog inputs can be calibrated from the embedded web server configuration
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I/O protections	The 4 I/O are protected against incorrect wiring with the I/O configuration and the following restrictions: Max. supply for I/O: Supply voltage (12-24VDC) Max. Output current: 100mA
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SUPPLY CIRCUIT

Supply voltage	12-24VDC
Maximum consumption	<1,5W
Alternative supply systems	For systems where an uninterruptible power supply is required, a 12 V battery controlled by the IPexCHD charger device can be included.

ENVIRONMENTAL CONDITIONS

Working temperature	-25° ~ 85°C
Humidity	5% ~ 95% % (without condensation)

INFORMATION ABOUT ORDERS

Minimum order	1
Order reference	IPex04
Accesories	IPexCHD, Wireless3G

CONSTRUCTION FEATURES

Dimensions	52x90x58mm (W/H/D)
Box material	ABS Plastic
Installation type	DIN Rail
Degree of protection	IP20
Weight	98g

CERTIFICATES AND DECLARATIONS

Rules	EN 61000-6-2:2019 EN 61000-6-3:2007 + A1:2011
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This product is compatible with RoHS (2011/65/UE)