

EVO032

Rev. 1 - 08/12/2022

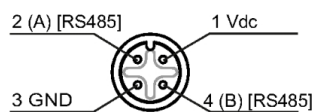
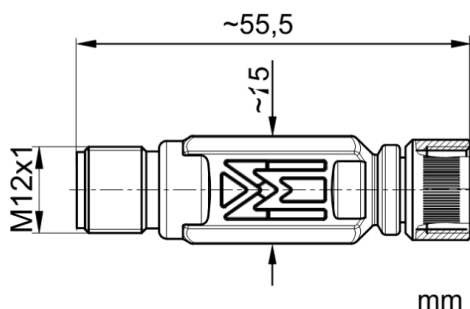
EvominiSER-I2C

Converter with Modbus RTU output and I2Cbus sensors input

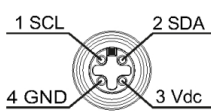
Compact device with IP67 degree of protection, can be plugged to different type of digital sensors equipped with I2Cbus interface. Four LED's show the functional status of sensor.

By a single cable, it is possible create a sensors network and interfacing them directly to a PLC or a PC equipped with a supervisory software (SCADA).

The M12 connection makes the installation simple, fast and error-free.

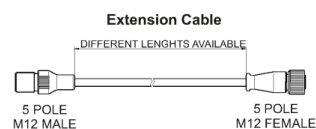
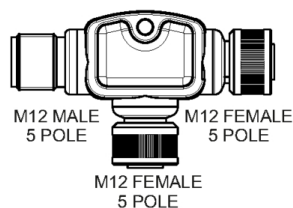


M12 4 pin male
(power supply connection)



M12 4 pin female
(sensor connection)

«T» Distributor



TECHNICAL SPECIFICATION

Power supply	9 ±32 Vdc (polarity protected)
Electronic board input	for digital sensors with I2C Bus interface Power supplied to sensor 3.3Vdc max 5mA
Accuracy (*) (*) @25°C	refer to the specific graphs Temp: ± 0.3°C @ -40÷ 90°C RH: 2% @ 0÷100°% refer to the technical data of the sensor installed
Resolution	Temperature: 0.1°C Relative Humidity: 0.1%
Current consumption	<4mA with RS485 (<10mA at power on for approx. 8mS)
Communication protocol	Modbus RTU (max. baud rate 38.400)
Serial interface	RS-485 (not insulated)
Maximum connection distance	1000 meters, this distance depends on the power supply voltage and the type of cable used to connect the various devices
Maximum devices on network	Maximum 256 nodes (it is recommended to use isolators / repeaters along the serial line)
Input/Output insulation	None
Indicator LED	Blue LED, power supply and device operations indicator Red LED (ERR), sensor error indicator White LEDs (TX and RX), serial transmission and reception indicators
Electronic board operating temperature	-40 ÷80°C
EMC	In accordance to BS EN 61326-1:2013 (UKCA) In accordance to EN 61326-1:2013 (CE)
Configuration	By using the EVOPLATFORMSET configuration kit (a PC with Windows OS is required).
International protection marking (*) (*) According to IEC 60529	IP65/67
Compatible sensors	Temperature / Humidity sensor (cod. EVO033) Ambient light sensor (cod. EVO035)
Main device design parameters	Variables measured by the sensors Minimum and maximum peak of measured variables Offset for correction of the measured variables Serial communication and power-on watch-dog
Option	"T" distributor Female / Male / Female M12 x 5 poles Extension cables with M12 overmoulded female and male connectors Wall mounting bracket EVOPLATFORMSET configuration kit
Note	for each sensor it is necessary to download the communication driver on the EvominiSER. The device is supplied with the communication driver for the temperature / humidity sensor

ORDER CODES

EVO032