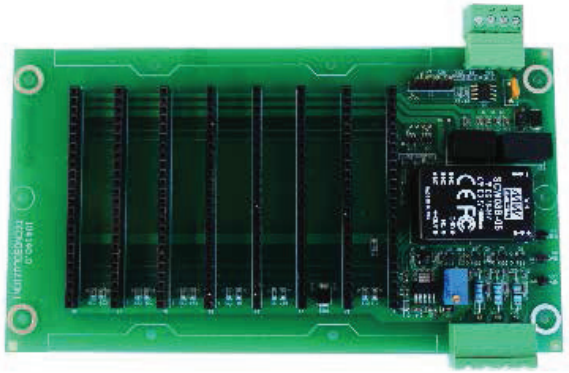
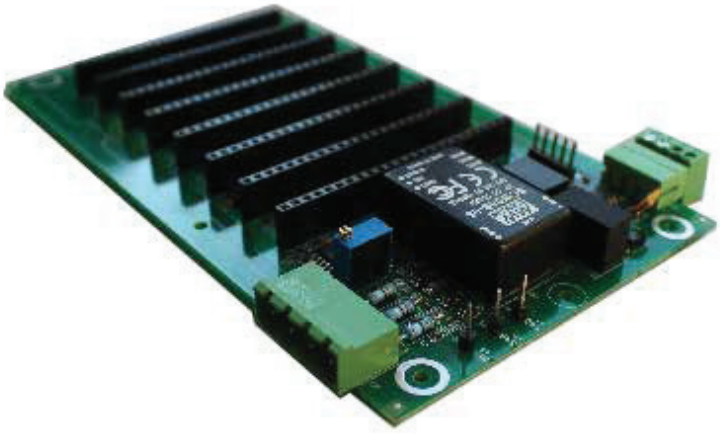
Polyslot



Polyslot is a registered Enspection product composed of a group of modular data acquisition modules e customizable according to your own needs. The device consists of 8 slots within which you can insert 8 different modules or shield, guaranteeing a precise measurement and acquisition of data and heterogeneous signals.

Technical Data Sheet

GENERAL PARAMETERS	
COMMUNICATION PROTOCOL	MODBUS RTU MODBUS ASCII MODBUS TCP
DATA TRANSMISSION ON SERIAL INTERFACE	ELECTRIC PROTOCOL RS485 BAUD RATE 9.2 kbps
INSULATION VOLTAGE	1500 VCA @ 50 Hz FOR 1 MINUTE BETWEEN INPUT, OUTPUT, POWER, NETWORK AND SERIAL PORT
ELECTROMEGNETIC COMPATABILITY (EMC)	IMMUNITY: CONFORM TO EN 61000-6-2 EMISSIONS: CONFORM TO EN 61000-6-4
POWER SUPPLY	SUPPLY VOLTAGE: FROM 18 TO 30 VDC MAXIMUM CONSUMPTION: 5W @ 24 VDC WITH ALL SLOTS OCCUPIED
ENVIRONMENTAL WORKING CONDITIONS	TEMPERATURE: FROM -10 TO +45 °C HUMIDITY: FROM 0 TO 90 % (NON-CONDENSATING)
STORAGE TEMPERATURE	FROM -40 TO +85 °C
CONTAINER	MATERIAL: SELF-EXTINGUISHING PLASTIC ASSEMBLY: ON DIN EN-50022 RAIL WEIGHT: APPROX. 300 G WITH ALL SLOTS



The available types of shields are the following:

- *Energy Meter*
- *Digital inputs*
- *Analog inputs*
- *Temperature inputs*
- *Analog outputs*
- *Relay outputs*

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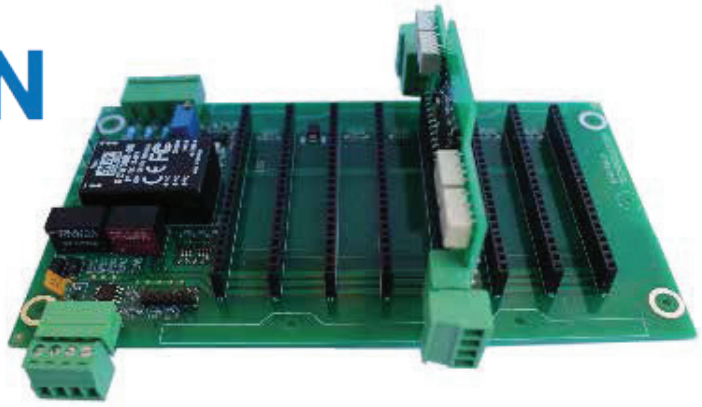
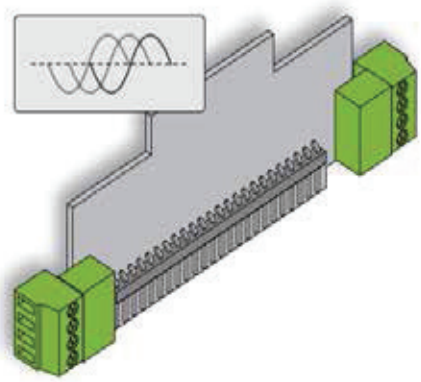
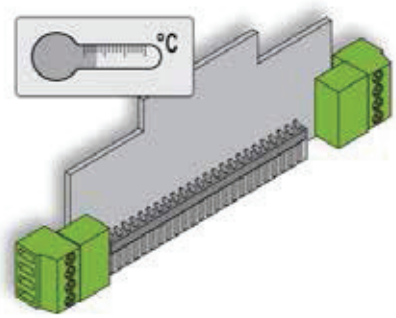


Shield Features

ENERGY METER	
VOLTAGE AND CURRENT ACQUISITION	TRUE RMS
VOLTAGE INPUT TYPOLOGY	DIRECT VOLTAGE 0R TV (STAR OR TRIANGLE)
MAXIMUM PEAK VOLTAGE	373VAC FOR [TV REPORT]
TV REPORT SELECTION	BY MEANS OF MODBUS COMMAND
VOLTAGE RESOLUTION	0,18V PER [TV REPORT]
MINIMUM MEASURABLE VOLTAGE	5V FOR [TV REPORT]
VOLTAGE PRECISION	0,5%
VOLTAGE SAMPLING FREQUENCY	6250 Hz
CURRENT INPUT TYPOLOGY	WITH TA 333mV
TA REPORT SELECTION	BY MEANS OF MODBUS COMMAND
CURRENT RESOLUTION	0,0026A FOR [TA REPORT]
MINIMUM MEASURABLE CURRENT	0,01A FOR [TA REPORT]
CURRENT PRECISION	1%
CURRENT SAMPLING FREQUENCY	6250 Hz
NETWORK FREQUENCY MEASUREMENT RANGE	40 - 70 Hz
RESOLUTION	0,01 Hz
FREQUENCY MEASUREMENT PRECISION	0,2%





TEMPERATURE MEASUREMENTS	
TYPE OF PROBE	PT100 OR PT1000 THERMOCOUPLE K
TEMPERATURE RANGE	-40° + 80 °C PT100 -30° + 300°C THERMOCOUPLE K
RESOLUTION	0,1°C
PRECISION	0,5%

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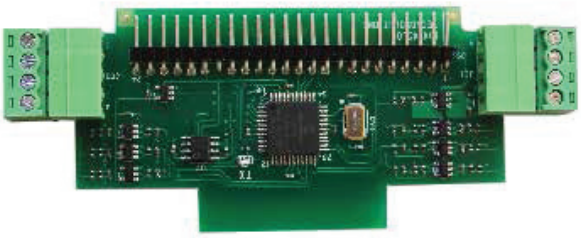
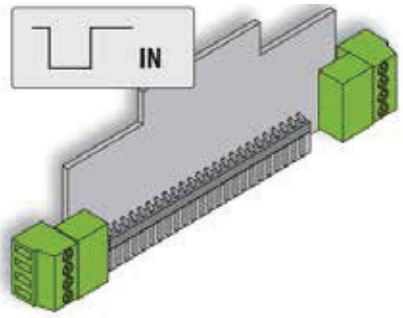
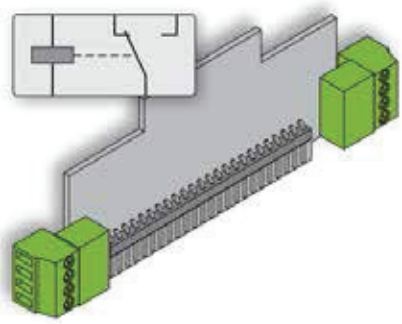


Shield Features

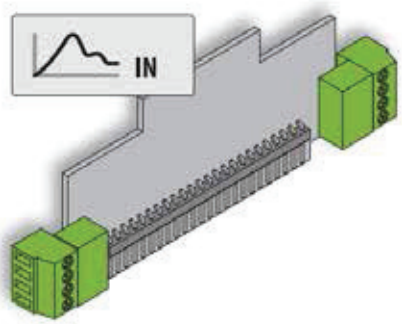
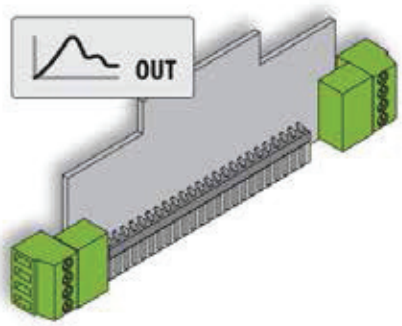
DIGITAL INPUTS	
TYPE OF INPUT	PULL-UP SU + 10VDC
LOW INPUT LEVEL (ON)	1,8VDC MAX
HIGH INPUT LEVEL (OFF)	8,5VDC MIN
VOLTAGE AT OPEN INPUT (OFF)	10VDC
CLOSING CURRENT (ON)	1,75mA (VIN=0)



RELEASE CONTACTS	
MAXIMUM SWITCHING VOLTAGE (AC)	250V C.A.
MAXIMUM SWITCHING VOLTAGE (DC)	24V C.C.
MAXIMUM SWITCHING CURRENT (AC)	2AMP
MAXIMUM SWITCHING CURRENT (DC)	2AMP
CONTACT COIL INSULATION	2KV A.C.



ANALOGUE INPUTS 4-20 mA	
INPUT IMPEDANCE	250 Ohm
SCALE BOTTOM CURRENT	20.47mA
SCALE BOTTOM VOLTAGE	5,12VDC
BREAKING CURRENT	0,04 A/SEC
RESOLUTION	0,01mA
PRECISION	0,5%



ANALOGUE INPUTS 0-10V	
ENTRY IMPEDANCE	7120 Ohm
SCALE BOTTOM VOLTAGE	10.23V
BREAKING VOLTAGE	20 V/SEC
RESOLUTION	0,01V
PRECISION	0,5%