

CURRENT ISOLATOR

QA-I



3-way CURRENT ISOLATOR, ACTIVE or PASSIVE input/output, transparent to the analog signals **0-20mA/0-20mA**, DIN rail mounting, universal supply AC/DC.



The images/schemes proposed are to be considered indicative and not binding

INPUT

CURRENT:
Active or Passive, up to 20 mA, input impedance 20 Ohm, max resolution 2µA.

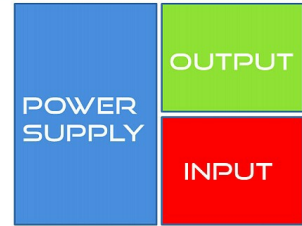
OUTPUT

CURRENT:
Active or Passive, up to 20mA, maximum load resistance 600ohm.

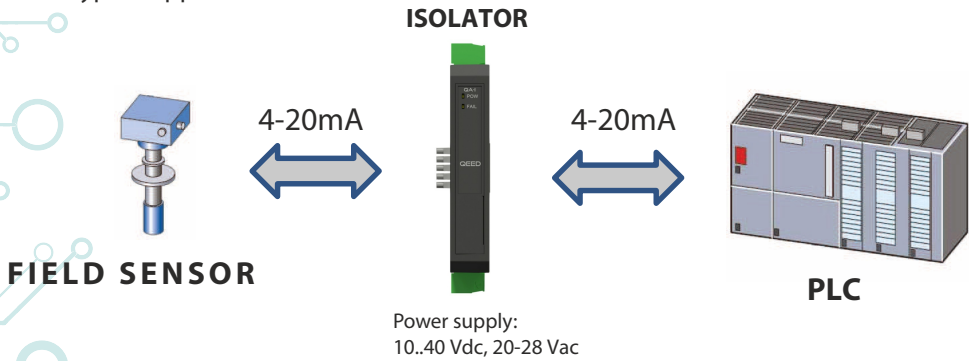
POWER SUPPLY	10..40 Vdc, 20-28 Vac, 50-60 Hz
RETRANSMISSION OUTPUT	On isolated analog output, Current (impressed); Active or Passive supply output (13 Vdc, max 30mA)
ABSORPTION	Maximum 2
PROTECTION INDEX	IP20
ACCURACY	0,1% F.S.
RESOLUTION	16 bit
REJECTION	50-60 Hz
THERMAL STABILITY AT 25°C	< 100 ppm/°C
WORKING TEMPERATURE	-15...+65°C
STORAGE TEMPERATURE	-40°C... +85°C
ISOLATION	Analog Input, analog output and Power supply, are 3-way galvanically isolated at 1,5kV
HUMIDITY	10...90% non condensing
ALTITUDE	Up to 2000 m s.l.m.
MOUNTING	DIN rail mounting with removable terminals, RS485 bus and Supply connection ready on the base of module (connector not included, on request)
CONNECTIONS	Removable terminals 5,08 mm
CE STANDARDS	EN61000-6-4/2006 + A1 2011; EN64000-6-2/2005 ; EN61010-1/2010
DIMENSIONS	17,5 x 100 x 112 mm (terminals excluded)

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CURRENT ISOLATOR

3-WAY GALVANIC ISOLATION



Typical application:





INSTRUCTION MANUAL QA-I

DESCRIPTION:

The QA-I is a current isolator signals from 0 to 20mA. You don't need to program the module, the device introducing a galvanic separation between input and output of 1.5kV, therefore the amount of input current will be made available at the output. The input and the output current can be ACTIVE or PASSIVE.

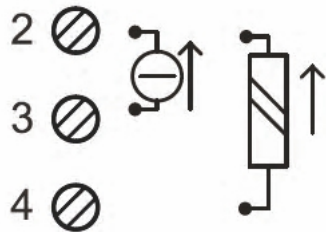
ELECTRICAL CONNECTIONS:

QA-I INSTRUCTION MANUAL



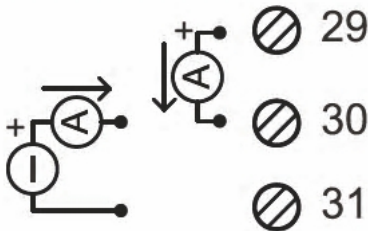
POWER SUPPLY:

10...40 Vdc or 20...28 Vac - Connectors 16 and 17 -MAX 2 VA.
Or by T-BUS connector (optional) on the base of



ANALOG INPUT:

for ACTIVE current input use the connectors 2 (positive) and 3.
For PASSIVE current input use connectors 2



ANALOG OUTPUT:

for ACTIVE current output use the connectors 29 (positive) and 30.
For PASSIVE current output use the connectors 30 (positive) and 31.



LED INDICATION:

POWER: indicates the presence of power supply on the module.

FAIL: indicates the presence of a malfunction (hardware problem, over / under range, incorrect electrical connection).

MOUNTING INSTRUCTIONS:

to mount the card on DIN rail, we recommend to place the top of the form on the edge of the bar omega, then pushing the bottom until it clicks. The module is equipped with a slider fastening that will be pushed forward in order to ensure the perfect fastening of the module on the bar.

