# QUALITY ELECTRONIC DESIGN





# UNIVERSAL SIGNAL CONVERTER 4 way isolated - RS485 MODBUS- Datalogger



Advanced UNIVERSAL SIGNAL CONVERTER, USB configurable, DIN rail mounting, 4-way galvanically isolated, universal power supply AC/DC, Programmable alarm contact, RS485 Modbus.

DATALOGGING via USB with pen drive stick memory and download storage data on excel importable files. RTC Real Time Clock integrated. CURRENT. VOLTAGE. FREQUENCY. POTENTIOMETER, TEMPERATURE (RTD and TC all types).



# **INPUT**

#### **VOLTAGE:**

up to 10 Vdc programmable, input impedence 100 KOhm, 1mV resolution.

#### **CURRENT:**

up to 20 mA programmable, input impedence 20 Ohm, max resolution 2 A.

### **TEMPERATURE:**

RTD: Pt100, Pt500, Pt1000, Ni100. 2,3 or 4 wire measure, automatic detection of cable interruption.

**TC Types:** J, K, R, S, T, B, E, N; automatic detection of cable interruption (-10mV to 70mV).

POTENTIOMETER: from 1000 Ohm to 10 KOhm.

## FREQUENCY:

from 0,001 Hz to 9,99KHz, mechanical contact, npn 2 and 3 wires, pnp 3 wires with supply of 24 Vdc, namur, photoelectric, Hall sensor, variable reluctance, pulse 24 V, TTL.

# OUTPUT

### **CURRENT:**

0...20mA programmable, max load resistance 600 ohm.

### **VOLTAGE:**

0...10V programmable, min load resistance 2 kohm.

### **CONTACT ALARM:**

5A 230Vac SPDT relay fully programmable by FACILE QA-OMNI.

### RS485 MODBUS:

bus connection on the base of module by adapter (option) or on terminals. Dip-switch for setting address and baudrate.

# **QA-OMNI**

**POWER SUPPLY** 10..40 Vdc, 20-28 Vac, 50-60 Hz RETRASMISSION OUTPUT On isolated analog output, Voltage and Current (impressed) programmable; Active or Passive supply output (13 Vdc, 30mA max)

**ABSORPTION** Maximum 2,5 VA

PROTECTION INDEX **ACCURACY** 0,1% F.S.

**RESOLUTION** 16 bit (15 + sign for TC)

REJECTION 50-60 Hz

THERMAL STABILITY AT 25°C < 100 ppm/°C

WORKING TEMPERATURE -15...+65°C

STORAGE TEMPERATURE

-40°C... +85°C

**ISOLATION** Input, analog and digital output, serial output RS485 and USB port, Power supply, are 4-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).

Removable terminals 5,08mm

CONNECTIONS **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)

DATA LOGGER Non-volating memory. Log on USB OnTheGo port by Pen Drive stick memory. The software FACILE QA-OMNI (free of charge) allow you to configure Log, all conversion parameters, set contact alarm, set Modbus address. RTC Real Time Clock integrated

### CONFIGURATION

By free software FACILE QA-OMNI to configure all of the conversion parameters like span, zero, alarm contact and log via USB port or via RS485. Dip-switch for setting modbus address and baudrate

### 4-WAY GALVANIC ISOLATION





way isolated - RS485 MODBUS- Datalogger

JNIVERSAL SIGNAL CONVERTER

**ENGLISH** 



