



Production Data Acquisition and industry monitoring



Smart energy management and monitoring



Weather conditions and environmental monitoring



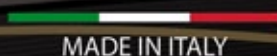
Water quality and pollution monitoring

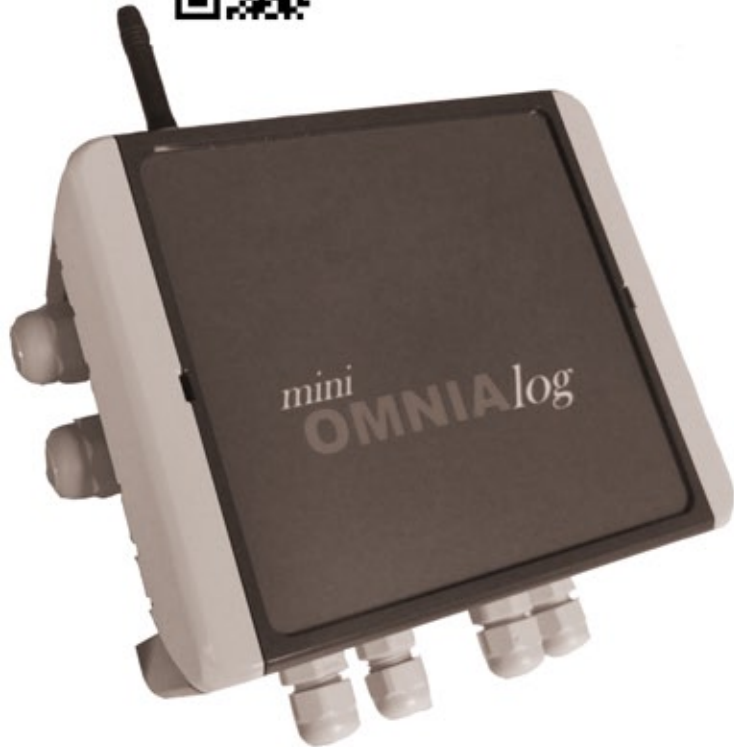


- Available Measures: mV, mA, mV/V, PT100, NTC
- Available Webserver
- Ethernet, RS485, RS232 and USB connections
- 0,05% F.S. Accuracy
- 2 GB internal memory and real time data
- 4 differential analog channels
- Available GPRS version

NEW 2014

SMS - e-mail ALERT



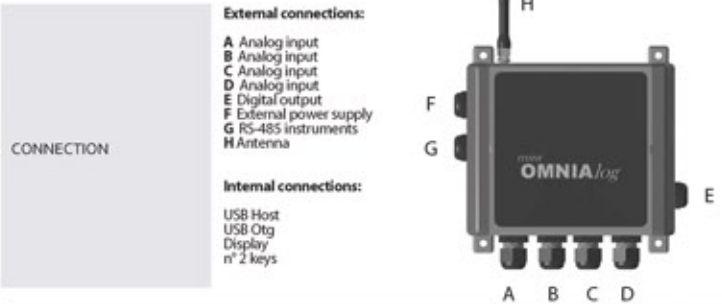


## miniOMNIAlog Universal Rugged Remote DAQ

Technology skills of Maxwell Industries plus 25 years of expertise in geotechnical instruments of Sisgeo srl have produced miniOMNIALog – a versatile, high accurate "smart" data acquisition system - with 4 analog inputs.

With miniOMNIALog no other configuration/analysis software package is needed as it is provided with web server on board; just a browser and it is ready to use. Logged data is ready to be showed in graphic "real time" mode or exported in CSV file.

DIMENSIONS	L 151,00 mm W 125,00 mm H 90,00 mm (without cable gland and antenna)
WEIGHT	780 grams (batteries included)
MATERIAL	Polycarbonate



I/O	
ANALOG INPUTS	4 differential, individually configured
DIGITAL INPUTS	0
DIGITAL OUTPUT	One digital output (for alarm, etc.): volt-free closure (low voltage 30V, 2A)

ANALOG MEASUREMENT SPECIFICATION	
TYPE OF MEASUREMENT	mA, mV, V, mV/V, °C
ADC	24-bit (22 true bit) differential Analog-to-Digital Converters, 5SPS, 0-24 Average Function, auto-calibration and auto-range
RANGE	Current loop (2 wires); range 0..20mA (power supply up to 100mA) Transmitter (3-4 wires); range 0..20mA (power supply up to 100mA) Voltage (4 wires); range ±10mV, ±100mV, ±1V, ±10V Servo inclinometer; range ±5V Wheatstone bridge (6 wires, with sensing); range ±10m V/V Platinum RTD (Pt 100); range -50°C to +150°C Thermistor (NTC 3KΩ); range -50°C to +150°C Potenziometer; range ±2.5 V
READING RESOLUTION	1µA With F.S. 20mA, 1µV with F.S. ±10mV, 10µV with F.S. ±100mV, 100µV with F.S. ±1V, 0.1V with F.S. ±10V, 0.1°C with F.S. 1000 (Pt 100), 0.1°C with F.S. 100000 (NTC), 0.001 m V/V with F.S. ±10m V/V
MEASUREMENT ACCURACY	0.05% F.S. (0.1% F.S. for PT 100 and NTC)
TEMPERATURE DRIFT	< 10 ppm /°C, range -30°C to + 70°C

CPU AND INTERFACE	
MASS STORAGE	SD CARD 2 GB for data and WEB pages

INTERFACE	
SERIAL PORT	Only for GSM/GPRS internal module connection
GSM/GPRS module (optional)	Quad-band EGSM 850/900/1800/1900 MHz, GPRS Class 10, integrated Sim holder Extended temperature range (-40°C to 85°C). Stubby antenna with SMA connector
RS485 OPTO ISOLATED	N° 1 communication interfaces RS485
USB	USB 2.0 pen-drive only (FAT16 or FAT 32)

SYSTEM POWER REQUIREMENTS	
PROTECTION	Electro-mechanical relays, Gas Discharge Tubes, Overvoltage and reverse polarity protection
INTERNAL NON-RECHARGEABLE BATTERIES	6 batteries size AA, chemistry Lithium/Iron disulfide (Life s2), nominal voltage 1.5 V, min 2 a continuous current discharge, min 2 a pulse capability, min 3 Ah capacity
EXTERNAL RECHARGEABLE BATTERIES	12 Vdc nominal
TYPICAL CURRENT DRAIN	miniOMNIAlog sleep mode: 60µ A On: 60mA, With display on: 40mA, Analog initialization: 60m A, Measurement: 70m A (with 12 mA@24V sensor consumption)

ENVIRONMENTAL CONDITION	
OPERATING TEMPERATURE	-30 to +60°C (batteries -20 to +60°C)

CERTIFICATIONS	
Meets the essential requirements of the R&TTE Directive 1999/5/CE	
EN 61010, EN 601511, EN 301489	

CALIBRATION	
RECALIBRATION	Recommended every two years