



Production Data Acquisition and industry monitoring



Smart energy management and monitoring



Weather conditions and environmental monitoring



Water quality and pollution monitoring

Available App Real time Chart High Accuracy 0,01% f.s.

- Webservice on board
- 2 GB internal memory and real time data
- Available GPRS version
- 0,01% F.S. Accuracy
- 16 differential analog channels
- Expandable up to 384 channels
- Ethernet, RS485, RS232 and USB connections
- Available Measures: mV, mA, mV/V, PT100, NTC

NEW 2014 SMS - e-mail ALERT

MADE IN ITALY

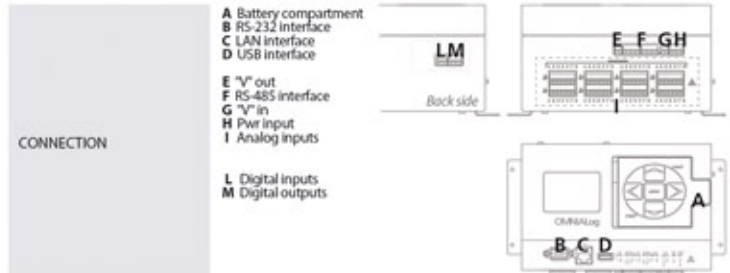
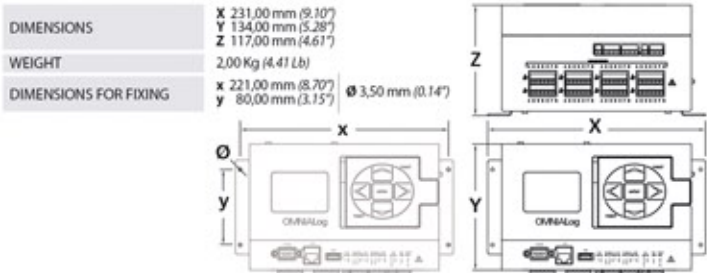




OMNIA log Universal Rugged Remote DAQ

Technology skills of Maxwell Industries plus 25 years of expertise in geotechnical instruments of Sisgeo slr have produced OMNIALog – a versatile, high accurate "smart" data acquisition system - with 8/16 analog inputs and expandable up to 384 analog channels.

With OMNIALog 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.



I/O	
ANALOG INPUTS	8/16 differential, individually configured, channel expansion provided multiplexers
DIGITAL INPUTS	Two opto-isolated digital inputs individually selectable for switch closure, high frequency pulse and trigger. Independent 24-bit counters for each input.
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
READING RESOLUTION	1µA with F.S. 20mA, 1µV with F.S. ±10mV, 10V with F.S. 100mV, 100V 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), 0.1 m V/V with F.S. 10m V/V
MEASUREMENT ACCURACY	0.01% 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	
LAN	10/100, RJ45
RS232	9-pin, DE9: DCE port for GSM modem connection. Baud Rates: selectable from 9600 bps to 115.2 kbps. Default Format: 8 data bits; 1 stop bits; no parity
RS485 OPTO ISOLATED	N° 2 communication interfaces RS-485
USB	USB 2.0 pen-drive only (FAT16 or FAT 32)
SYSTEM POWER REQUIREMENTS	
PROTECTION	Overvoltage and reverse polarity protection
INTERNAL NON-RECHARGEABLE BATTERIES	2 batteries size D, chemistry Lithium Thionyl Chloride, nominal voltage 3.6 V, capacity 19 Ah, low self discharge (< 1% per year), wide operating temperature range -30+60°C
EXTERNAL RECHARGEABLE BATTERIES	12 Vdc nominal
TYPICAL CURRENT DRAIN	OMNIALog sleep mode: 100µ A Ethernet: 60m A (enable), 90m A (connected) Display on: 60m A Measurement: 120m A (without sensor consumption)
ENVIRONMENTAL CONDITION	
OPERATING TEMPERATURE	-30 to +70°C (without condensation)
CERTIFICATIONS	
ELECTROMAGNETIC COMPATIBILITY	IEC 61326 (2006) Electrical equipment for measurement, control and laboratory
SAFETY REQUIREMENTS	EC 61010-1 (2010) safety requirements for electrical equipment for measurement, control, and laboratory use
CALIBRATION	
RECALIBRATION	Recommended every two years