



**maxwell**  
industries



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
- 0,01% F.S. Accuracy
- 2GB internal memory and real time data
- 16 differential analog channels expandable up to 384
- Available GPRS version

**NEW 2014**

SMS - e-mail ALERT )))



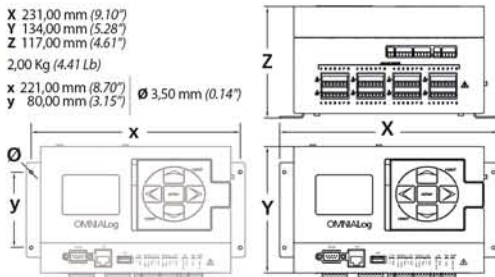


## OMNIAlog Universal Rugged Remote DAQ

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

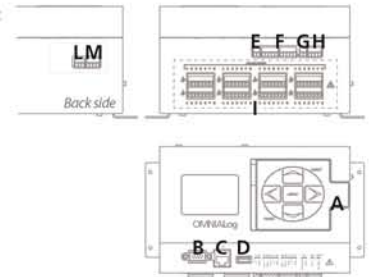
With OMNIAlog no other configuration/analysis software package is needed as it is provided with web server on board; just a browser and it is ready to use. Logged data is ready to be showed in graphic "real time" mode or exported in CSV file.

DIMENSIONS	X 231,00 mm (9.10") Y 134,00 mm (5.28") Z 117,00 mm (4.61")
WEIGHT	2,00 Kg (4.41 Lb)
DIMENSIONS FOR FIXING	x 221,00 mm (8.70") y 80,00 mm (3.15") Ø 3,50 mm (0.14")



### CONNECTION

- A Battery compartment
- B RS-232 interface
- C LAN interface
- D USB interface
- E  $\mu$ V out
- F RS-485 interface
- G  $\mu$ V in
- H Pwr input
- I Analog inputs



- L Digital inputs
- M Digital outputs

I/O	
ANALOG INPUTS	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 $\pm 10$ mV, $\pm 100$ mV, $\pm 1$ V, $\pm 10$ V
	Servo inclinometer; range $\pm 5$ V
READING RESOLUTION	Wheatstone bridge (6 wires, with sensing); range $\pm 10$ m V/V
	Platinum RTD (Pt 100); range -50°C to +150°C
MEASUREMENT ACCURACY	Potenziometer; range $\pm 2.5$ V
TEMPERATURE DRIFT	1 $\mu$ A With F.S. 20mA, 1 $\mu$ V with F.S. $\pm 10$ mV, 10V with F.S. 100mV, 100V with F.S. $\pm 1$ V, 0.1V with F.S. $\pm 10$ V, 0.1°C with F.S. 1000 (Pt 100), 0.1°C with F.S. 10000 (NTC), 0.1 m V/V with F.S. 10m V/V
TEMPERATURE DRIFT	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 RS485
USB	USB 2.0 pen-drive only (FAT16 or FAT32)
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: 100 $\mu$ 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)
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### CERTIFICATIONS

ELETTROMAGNETIC 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
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