## MINILOG Data acquisition system



## **Description**

The MINILOG data acquisition system designed by SIM STRUMENTI is a compact and economic data logger meeting all fields requirements and perfectly match to all SIM STRUMENTI instruments. The MINILOG is available in three standard versions, connectable with a variety of instruments, thus providing an excellent quality-price ratio.

The MINILOG is powered by a 9V battery that provide to switched power for most of the connected sensor as well. The internal battery life is guaranteed for 7 years in standby mode, while in the acquisition mode the battery life is dependent on the acquisition interval and the types of instruments connected (example: for 4 displacement sensor with 6hrs recording interval, the data logger will last 3 years). If necessary, it is possible to connect an external power supply.

The acquisition time interval is programmable from 10 seconds to 24 hours. The "Scan" function, in order to control the threshold alarm limit, is programmable from 10 seconds to 24 hours. The "Warm Up" function switched power to the instrument from 1 to 60 seconds (programmable) before the actual readout, in order to data stabilization.

The data is stored onto the solid-state memory, which has a storage capacity for 32000 data. SIM STRUMENTI offers a special Switch unit mod. ML-SW that can be connected to the MINILOG in order to connect eight MINILOG, achieving 32 channels. In this case the communication would be via serial for all data loggers.

A modem can be connected either to the MINILOG or to the Switch unit.

The MINILOG is housed in a rugged enclosure in polyester glass fibers reinforced, IP65 whose dimensions depends on number of channels and/or required accessories.

The VEDO software supplied with the data logger enables a perfect management process data on-site or for remote control.

## **Applications**

Connected to piezometers, multipoint borehole extensometers with displacement sensors, inclinometers, conductivity sensors, meteorological stations etc.











## **MINILOG** Data acquisition system

Techn	ical features			
Model	ML-4CH	ML-PT	ML-PTX	
Nr. of channels	4	2	2	
A/D	16 bit	8 bit	8 bit	
Input 4-20mA	•	-	-	
Input ±2V	•	-	-	
Input ±200mV	•	-	-	
Input PT100	-	•	•	
Counter Pulse	-	8 bit	8 bit	
totalizer	-	16 bit	32 bit	
Input ±5V	*	-	-	
Input ±20mV	•	-	-	
Test	•	•	•	
Alarm output	•	-	-	
Alarm	Pulse +V e	Pulse +V e/o Message SMS (via modem)		
Warm Up	•	•	•	
Stored phones number		6		
SMS messages	1 for every channel + 1 main message			
Internal Power	Battery 9V 1200Ah			
External Power		9-24Vcc		
Memory per channel	8190 data	16000 data	8190 data	
RS232/USB**		•		
Consumption	•	0.01mA in standby 20mA during connection + sensor consumption 30mA during acquisition + sensor consumption		
Com. Speed (BPS)	9600			
Operating temperature		-20 ÷ +70 °C		
Acquisition rate	Program	Programmable from 10 sec to 24 hrs.		
Scan rate	Program	Programmable from 10 sec to 24 hrs.		
Protezction		IP65		
Dimensions		75x55x190 mm		
Weight	0.600 Kg			
Acc	cessories			
Battery 9V		ML000-AX-PS09		
Power supply 220V	ML000-AX-PS01			
Supply cable lighter		ML000-AX-CPS1		
External power supply cable		ML000-AX-CPSE		
Bracket kit	ML000-AX-MW01			
Communication Kit (USB cable, driver and software VEDO)		ML-LY-COM		
Alarm card includes TEST/RESET buttons and bistable relay		ML-LY-SA		
GSM/GPRS modem		MDS-BSE		
DC/DC for sensor supply +15Vcc		ML-LY-DC1515		
• standard - not available * upon request				

- standard not available \* upon request
- with SIM STRUMENTI converter

