

Monitoring and data logging central unit from environmental sensors
(O2, CO2, Temperature, Humidity, etc)

BioLogger



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Technology & Innovation

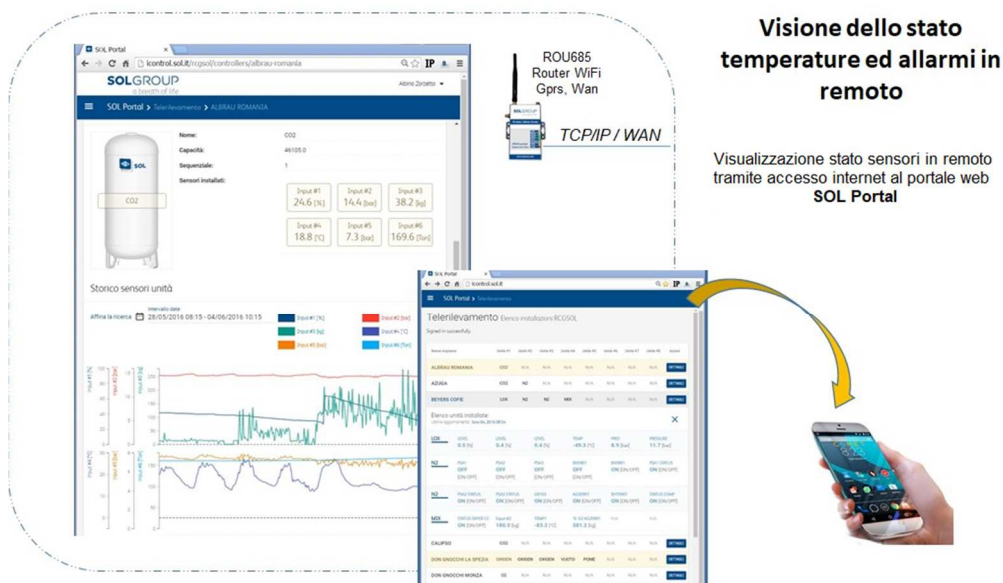
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a breath of life

SGLAB Code: EM265SC02

General description: It is a latest generation electronic device, with supervision function, designed for environmental monitoring in general and especially for scientific medical environments, being versatile and adaptable to various contexts: from gas systems, vacuum, to the supervision of parameters in clinical-health facilities.

It displays and stores analogue variable readings of different amounts depending on the sensor (s) connected (O2, CO2, temperature, relative humidity, differential pressure, etc). Thanks to its large 4.3" LCD touch screen display it is possible to instantly view data and event readings (alarms and pre-alarms) in progress, in addition to being able to consult the readings historicized by the control unit.

It can be connected to an Ethernet LAN and to a Modbus RS485 communication system. Through a special IP address assigned dynamically or static, it is possible to access in remote mode with a browser for inputs/outputs configuration, management of email users for email notifications, management of telephone users for SMS notifications. The data are stored inside and can be downloaded via USB device or directly from its Web page, by purchasing an optional router, through a dedicated optional portal: *SOL Portal*.



The new version, produced since 2020, has 18 inputs: 10 promiscuous inputs (analog 4-20mA / 0-5V and / or digital ON / OFF inputs) and 8 digital inputs (ON / OFF inputs).

It can manage 4 alarm thresholds for each input signal, for example: high temperature pre-alarm, high temperature alarm, low temperature pre-alarm, low temperature alarm.

It has 2 hardware outputs for remote signaling on operating centers or centralized alarm systems and a general emergency relay dry contact

MAIN FEATURES

1. Real-time monitoring of connected sensors;
2. Internal storage of monitored data;
3. Management of traceability of trends and consumption thanks to the portal graphics;
4. Real time identification of alarms presence (optical-acoustic signalization);
5. Report generation via data download via USB device;
6. Pre-configurable by SG Lab technicians;
7. Web based device, access via IP address;
8. Large number of inputs.

TECHNICAL FEATURES

<i>BioLogger</i>	UM	Features
Dimensions (Width x Height x Depth)	mm	220 x 130 x 60
Weight	g	500
Operating voltage	VDC	19-26 VDC
Minimum ÷ maximum operating temperature	°C	-10 ÷ 40
Minimum ÷ maximum operating humidity	%	25 ÷ 75
Maximum altitude above sea level	m	1000
Touch screen display		
Visual area size	inch	4.3
Number of colors that can be represented		262.000 colors
Display technology		TFT
Touch screen type		resistive
Main components		
Emergency buzzer at 1 meter distance	dB	70
RS485 serial interface		115.2 kbps 8N1
USB interface (connection with USB stick)		FAT 8GB max
I/O of the device		
Dry contact relay output for low voltage signals	1	230VAC 2A
Current-limited static outputs for actuators control	2	24VDC PNP
Digital inputs (ON/OFF) / Analog inputs	10	24VDC PNP 0-5 VDC 4-20 mA
Digital only inputs (ON/OFF)	8	24VDC PNP

OPTIONAL ACCESSORIES

Description:	Code:
External additional buzzer	EM023SI
Power supply 24VDC 75W for DIN guide (to be mounted in an electrical panel)	EM151AL
Power supply 24VDC 1,5 A 35W open frame (to be mounted in an electr. panel)	EM303AL
Galvanic separator -> 4-20mA on DIN rail (4-20mA signal duplicator)	EM308TR-1
Router 3G RS485 WI-FI New version	EM522RU
Panel for optical-acoustic alarm signalization (remotization to another room)	EM525SE

SOL GROUP LAB Srl unipersonale

Via A. Meucci, 26
36030 Costabissara (VI) - Italy
t +39 0444 2904 11
f +39 0444 5574 60
e info@solgrouplab.it
www.solgrouplab.it

Sede Legale Costabissara
N. Registro Imprese Vicenza,
C.F. e P. IVA 02195260241
Capitale Sociale Euro 100.000,00 iv.
R.E.A. 213642

Società soggetta ad attività
di direzione e coordinamento
di SOL Spa

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