



ATEX site and stand-alone data logger

LOG 15

Flow computers

Measuring systems

Remote Terminal Unit

Supervisory system

LOG 15 is a stand-alone and multifunctional data logger. It allows to measure and store different values of physical measurements.

It is a site powerful recorder used in ATEX area for monitoring, controlling and recording of pressure, temperature, differential pressure and flow.

LOG 15 is a autonomous device powered by battery or/and solar panel.

The response for all types of records

Thanks to its modular design, the LOG 15 is suitable for all market requirements in the field of acquisitions and recording of data on oil and gas stations.

Three versions are available depending on the number of inputs / outputs: Light - Base - High versions.

Various applications

- Monitoring of transport and distribution gas network
- Monitoring and controlling the pressure of gas delivery stations
- Back up recording on international stations
- Monitoring of pipes in the oil industry
- Industrial process monitoring

Simple and easy-to-use solution

LOG 15 is suitable for local use or for remote operation.

Easy installation

Simplified wiring with dedicated absolute, relative or differential pressure transducers.

Without external power supply and no specific configuration.

Compact unit requiring no special infrastructure installation.

A field device for hazardous areas

LOG 15 is ATEX certified for direct installation in the measurement area.

IP66 waterproof housing.

Communication

Configuration, operation and maintenance with PC via dedicated software with intuitive and user friendly man-machine interface.

Possibility of configuration and maintenance with local keypad and display.

Stand-alone operation

LOG 15 is a low energy concept designed to enable autonomous operation.

Autonomous power supply

Autonomy of the batteries of more than 5 years.

Solar panel charging to keep the equipment working at all times.

Optimised energy management

Activation of the display upon request to save energy.

Data acquisition optimization with an automatic power down function.

Smart Recording

LOG 15 allows an optimization of data management and sharing thanks to a perfect traceability and monitoring of data.

The period can be set from one measure every second to one every hour.

The management integrates an automatic switch summer - winter time.


It provides the possibility of a double sample frequency to reduce the recording period in case of an alarm.

Data archiving

Easy retrieval of data saved in spreadsheet format (csv, xls...).

Possibility to display data in the form of graphs.

Technical data - Data Logger

Model		LOG 15				
Applications		Monitoring of the pressure on the delivery station and on the transport or distribution gas Monitoring of metering stations for liquid or gaseous hydrocarbons Back up metering on the international metering stations with recording of the P, T, ΔP				
Functions		Acquisition and recording of analog measurement and flow (LF/HF) Monitoring of the logic states Secured backup of data records Data logger with alarm function Innovative recorder : record P, T, ΔP (easy replacement of mechanical recorders) 4 types of secured records: hours, daily, events, programmable with access volumes min., max., average.				
Equipment		User interface LCD 4 20-characters lines , alphanumeric display – 6-key keyboard				
Enclosure		Material: Inox and aluminium for the top cover Dimensions: 200 mm Large x 200 mm Width x Depth 130 mm Weight: 3 kg Fixing: wall or tube-mounting Connection for dedicated pressure sensor: male ¼ "gas connector Electric connection: plugs-in screw terminals				
Data storage		Capacity: 5,000,000 data on removable compact flash™ memory card	Light	Base	High	
Inputs/Outputs		Low frequency metering	Potential free dry contact – Max. frequency : 10 Hz	1	2	2
		High frequency metering	Namur type as per ISO 6551 – Max. frequency 5000 Hz	0	2	2
		Differential pressure	Digital inputs for differential pressure measurement by dedicated sensor 0 to 320 mbar for static pressure max. 160 or 420 bar 0 to 1,300 mbar for static pressure max. 160 or 420 bar Accuracy +/-0.07 % full scale	0	1	1
		Pressure	Dedicated pressure sensors: Abs. 0-2 / 0-10 / 0-30 / 0-50 / 0-100 bar or 0-0,2 / 0-5 / 0-10 / 0-20 bar (g) Accuracy +/-0.1 % full scale	1	2	2
		Temperature	Pt100 class A, 24-bit resolution – 4 wires	1	1	2
		Analog input	4-20 mA passive, 24 bit resolution for pressure, temperature or others	0	4	8
		Digital Inputs/outputs	Can be configured for condition detection, information copy, monitoring Dry contact inputs or open collector outputs	4	4	8
		Analog outputs	Can be configured for analog data copy (flow rate, pressure, temperature) 0,4-2Vcc (4-20mA upon request), 12-bit resolution	0	2	2
		RS232 serial link	Configuration - programming	1	1	1
		RS422 serial link	MODBUS or proprietary protocol	1	1	1
Languages		French, English				
Operating conditions		Temperature	Ambient : -25 °C to +55 °C Storage : -40 °C to +70 °C			
		Relative humidity	< 98% without condensation			
Installation		ATEX certification	LCIE 03 ATEX 6320 X -  II1G - Ex ia IIB T4 ou IIA T4 Ga			
		Protection class	IP 66			
		Power supply	Battery 5.6 Vdc with more than 5 years autonomy Solar panel with battery and charger 115 Vca or 230 Vca , 50 or 60 Hz , with battery backup unit			

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