





TYPICAL USE

Management, automation, remote control of GR regulation

BASIC FUNCTIONS	
Pressure measurement	YES
Temperature measurement	YES
Digital alarm detection	YES
Counter management	YES
Threshold exceed detection on analogue signals (prex./temp.)	YES
Separate threshold management per channel	YES
Number out of limit (NOL)	NO
Time out of limit (TOL)	NO
Digital output management	Via VCTRL
Presence of integrated EX barriers	YES
Remote control management	Via VCTRL
Display	YES
Keyboard	YES
Measurement frequency	Configurable Minimum = 1 min
Logging frequency	Configurable Minimum = 1 min
RTU Mode	YES
RTU Polling	Configurable Minimum = 1 min
DTL Mode	YES
Contact frequency with the DTL server	Configurabile Default = 24 H
Sending of intensive measurement	YES
Daily data processing (daily report)	YES
Sending of minimum, average and maximum, standard deviation	YES
Real-time local monitoring	YES
Real-time remote monitoring	When configured as RTU and according to polling frequency
Monitoring of functional parameters (batteries, GSM signal)	YES
External power supply failure alarm	YES

Local configuration software	YES
Local configuration mobile app	NO
Control centre	YES
AUTOMA MODBUS protocol	YES
IEC104 Protocol	NO
AUTOMA smart sensors management	YES



OPTIONAL FUNCTIONS			
Integration of specific protocols (MODBUS GNC, SIEMENS, RTU, ASCII, ENRON)	YES		
Integration of PTZ SGERG88 volume correction algorithm	YES		
4-20mA analogue input management	YES		
Regulation lines management	2		
Direct control management	YES		
Driven control management	YES		
Different controllers management	YES		



TECHNICAL FEATURES	
Internal power supply	Rechargeable battery pack
External power supply	External power supply DC 24V, solar panel, universal power supply 85-265V @50/60Hz through suitable PELV transformer
Backup battery autonomy	YES
Presence of protection device against accidental polarity reversal in the power supply connection	YES
Separate compartments for wiring and electronic parts, and for battery pack and SIM card	NO
Number of channels	-
Selectable sensors	70mBar, 450mBar, 1Bar, 7Bar, 20Bar, 70Bar
Accuracy	Device: 0.02% FS Sensor: 0.4% FS
Clock/calendar	YES
Non-volatile internal memory for storing configuration data and processed data of measured signals	YES
Storage capacity	Movement: Rotary Pair: 5 Nm/ 10 Nm Multi-turn: YES On/Off: YES
ATEX Certification	G2P: II 2G Ex ib IIB T3 Gb Motor: II 2 G/D EEx d ia IIC T6 o T5
ATEX Zone	1, 2, 21, 22
International patent	n. EP2818961-B1 del 09/11/2016

MECHANICAL FEATURES		
Operating temperature	- 20°C ÷ + 60 °C	
Relative humidity	from 10 to 95%	
Container IP protection	IP66	
Installation dimensions	Power supply/control: Motor: Monoblock adaptation:	650x430x210 mm 210x95x80 mm 90x90x90 / 130x130x130 mm (ndicative dimensions)
Weight with internal battery pack	Motor 3.5 Kg + adapter module and junction be	ox

FUNCTIONAL SAFETY	
Magnetic end stops	YES, upper/lower limit
Magnetic rev counter	YES
Algorithm for checking consistency of operating parameters	YES
Minimum flow presence control for the adjustment	YES
Operating alarms and interruption of operation	YES
Configuration of operational functional limits	YES



COMMUNICATION			
LOCAL COMMUNICATION			
Tecnologies	MiWi		
Integrated antenna	YES		
Compatibility	Windows 10		
REMOTE COMMUNICATION			
Tecnologies	2G/3G/4G (GPRS/UMTS/LTE)		
Ethernet	YES, via SNODE		
Connection mode	RTU		
Roaming management	YES		
Integrated antenna	NO		
External antenna setup	YES		

CONTROL CENTRE MANAGEMENT	
Configuration of measuring channels	YES
Activation or deactivation of measuring channels	YES
Configuration of analogue signal thresholds values	YES
Digital alarms configuration	YES
Golem configuration	YES
Spectra configuration	-
Date and time synchronisation	YES

FIRMWARE UPDATE	
Local upgrade	YES
Remote upgrade	YES



FUNCTIONS			
	FIDO	WEBPRESSURE	SCADA
AUTOMA PRESSURE SENSOR MANAGEM	IENT		
Activation/Deactivation	\checkmark	query only	query only
Name assignment	\checkmark	\checkmark	$\sqrt{}$
Registers assignment	\checkmark	conditioned to configuration	conditioned to configuration
Zero point offset application	$\sqrt{}$	-	-
Zero point offset 25%-50%-75%-100%	\checkmark	-	-
TEMPERATURE SENSOR MANAGEMENT			
Activation/Deactivation	$\sqrt{}$	query only	query only
Name assignment	$\sqrt{}$	$\sqrt{}$	\checkmark
Registers assignment	\checkmark	conditioned to configuration	conditioned to configuration
4-20MA TRANSMITTERS MANAGEMENT			
Activation/Deactivation	√	query only	query only
Name assignment	\checkmark	\checkmark	\checkmark
Registers assignment	√	conditioned to configuration	conditioned to configuration
DIGITAL SIGNALS MANAGEMENT			
Activation/Deactivation	√	query only	query only
Name assignment	√	$\sqrt{}$	$\sqrt{}$
Registers assignment	\checkmark	conditioned to configuration	conditioned to configuration
Polarity assignment	√	\checkmark	\checkmark
EXTRA SIGNALS MANAGEMENT VBAT/XE	BAT/CSQ/DBM		
Activation/Deactivation	√	query only	query only
Name assignment	√	\checkmark	$\sqrt{}$
Registers assignment	\checkmark	conditioned to configuration	conditioned to configuration
CONFIGURATION OF ANALOGUE SIGNAL	. THRESHOLDS		
HH, H, L, LL, DB	\checkmark	√	\checkmark
Logging of overrun/return events	\checkmark	\checkmark	\checkmark
Instant sending of overrun/return events	$\sqrt{}$	\checkmark	\checkmark
ACQUISITION MANAGEMENT			
Sampling frequency	\checkmark	\checkmark	-
Logging frequency (minute/hour/daily historical queue)	√	√	√
Logging mode	\checkmark	\checkmark	\checkmark



	FIDO	WEBPRESSURE	SCADA
REMOTE COMMUNICATION MANAGEME	ENT		
N.3 IP/PORT configuration	\checkmark	-	-
APN/Username/Password configuration	\checkmark	-	-
Configuration of availabilities (DTL/RTU), activation, attempts	\checkmark	-	-
ID Scada configuration	\checkmark	conditioned to configuration	conditioned to configuration
Date/time synchronisation	\checkmark	\checkmark	$\sqrt{}$
Firmware visualisation	\checkmark	\checkmark	-
Firmware update	\checkmark	\checkmark	-
REGULATION MANAGEMENT			
Operating mode configuration (pressure modulation, flow limitation, weekly profiles, pressure compensation)	,	√	√
Target pressure configuration	-	\checkmark	\checkmark
Maximum flow configuration	-	\checkmark	$\sqrt{}$
Configuration of setting times	-	\checkmark	\checkmark
Minimum flow configuration for regulation	-	\checkmark	\checkmark
Operating pressure range configuration	-	\checkmark	\checkmark
Deadband configuration for automatic reactivation	-	√	√
Detection sensitivity configuration	-	\checkmark	$\sqrt{}$
Stability detection mode configuration		\checkmark	\checkmark
Pressure range configuration	-	√	\checkmark
Weekly profiles configuration	-	\checkmark	\checkmark
Dual sensor mode configuration	-	\checkmark	\checkmark
Dual sensor offset configuration	-	\checkmark	\checkmark



