GAS link
G-LOG +

RTU TO MANAGE PRESSURE REDUCTION UNITS IN GAS NETWORKS

FAST
CONTROL TECHNOLOGY

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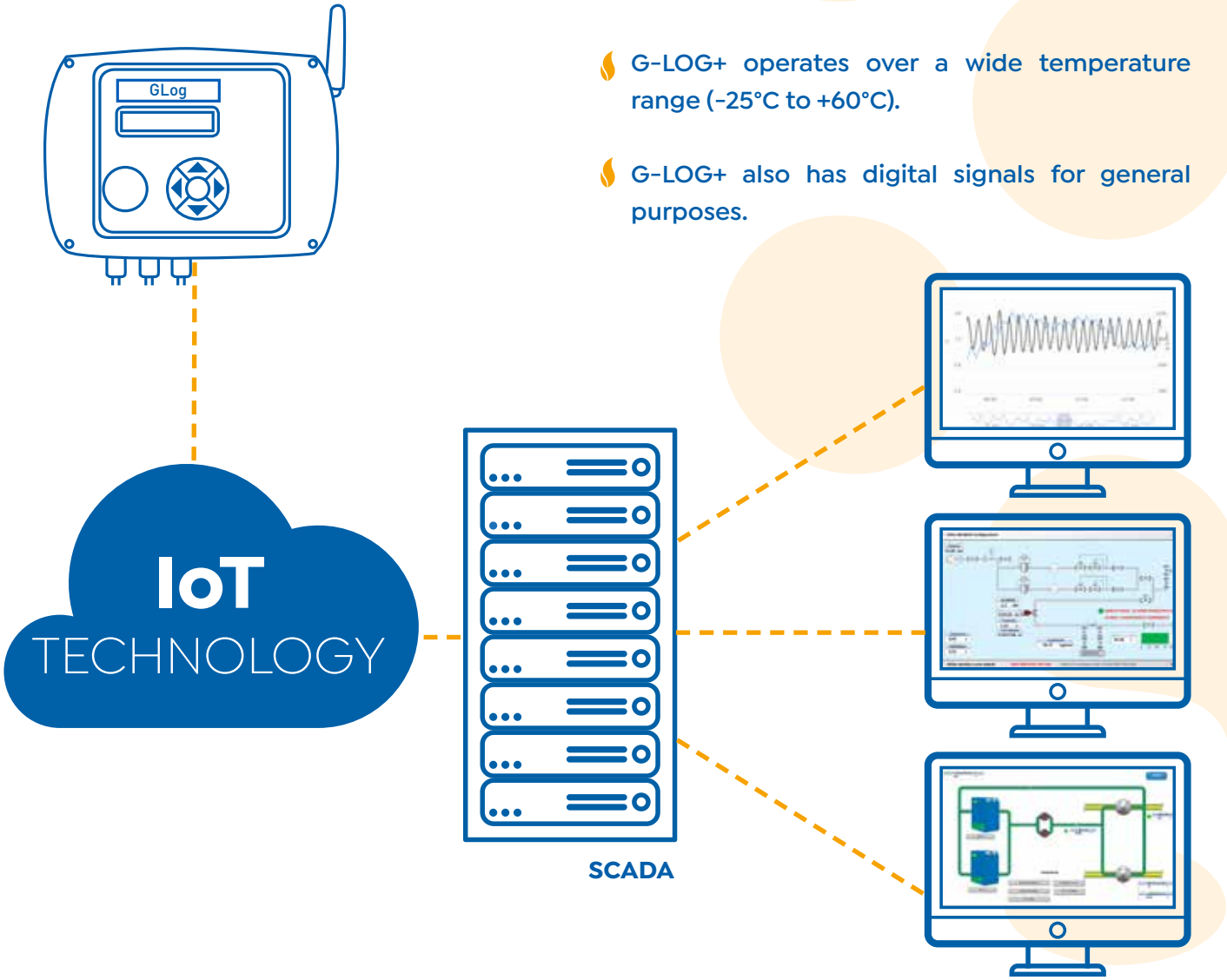
G-LOG+ is an RTU designed to monitor and control plants dedicated to reducing gas pressure.

The device can be installed in hazardous, ATEX classified areas in compliance with EN60079-0 and EN60079-11.

G-LOG+ communicates with the centralised data collection system (SCADA) using communication protocols such as MODBUS, IEC60870, DLMS and CTR, WM-BUS.

In addition, G-LOG+ can mount either LoRaWAN or NB-IoT modems, making it an IoT product that can be integrated seamlessly into Smart City cloud architectures.

- G-LOG+ is a battery-powered Low Power device that has a guaranteed autonomy of more than 5 years.
  When real-time communication is required, the RTU can be powered from an external source in combination with the ATEX-certified G-POWER intrinsic safety barrier.
  External power sources can be:
  • electricity network
  • AMT-AIRWATT microturbine
  • photovoltaic panel
- G-LOG+ is easy to install and connects to the operational control centre using the integrated GSM/GPRS modem or via 169 / 868 MHz radio frequency connections or is configured as an IoT sensor in a Cloud architecture.
- G-LOG+ operates over a wide temperature range (-25°C to +60°C).
- G-LOG+ also has digital signals for general purposes.



TECHNICAL CHARACTERISTICS

PRESSURE	Up to 3 inputs from pressure cells (different ranges from 0.8-2.0 bar to 6-80 bar)
TEMPERATURE	Up to 2 PT1000 inputs
MEASUREMENTS	2 inputs 0-5 V (optionally convertible to 4-20 mA)
DIGITAL SIGNALS	10 DI (including 8 voltage-free contacts and 2 for high-frequency counting<1.5KHz) 4 DO Open Collector
EXPANDABILITY	Through RS485 port
LOCAL COMMUNICATION PORTS	1 RS485 1 IR (optical communication port)
WIRELESS COMMUNICATION	1 GSM / GPRS MODEM (integrated or external antenna) / 3G / 4G 1 LoRaWAN IoT Radio Modem / NB-IoT 1 169 MHz / 868 MHz WMBUS protocol with Radio Modem or
HMI	Integrated display: 2 x 20 Alphanumeric, 5 Keys
RTC CLOCK	Internal with independent battery
MEMORY	4 MB FLASH
POWER	Lithium batteries (5 years) with external power supply via G-Power
PRECISION	Accuracy of the data logger: +/- 0.3 %
ENVIRONMENTAL CONDITIONS	-25°C < T < + 60°C
CASE	IP 67
CERTIFICATION	The device is certified compliant with the ATEX directive: **Version A**: with integrated modem **Version T**: with integrated modem and G-Power external power supply Ex II 1 G Ex ia IIA T3 Tamb = -25°C ÷ +60 °C **Version B:** with modem installed in a safe area for use with IIB gas unit Ex II 1 G Ex ia IIB T3 Tamb = -25°C ÷ +60 °C CE

FUNCTIONS

DATA ACQUISITION	Basic acquisition time: 1" - 15' Maximum number of variables that can be acquired: 10 Maximum number of samples stored: Average value 500 days - 4 values per hour
METERS	2 fast meters Range: 32 bits with conversion to engineering units
CONVERSION FORMULAS	AGA8-DC2, SGERG88 ISO12213 standard
COMMUNICATION PROTOCOLS	MODBUS RTU, IEC 6870, CTR, DLMS, WM-BUS
IoT	LoRaWAN - NB-IoT
MESSAGES	SMS
ALARMS	Signalling and management of alarms and events generated by exceeding the threshold/ reaching physical and logical states. Use of the message service for alarm notification.
REAL TIME	GPRS/3G/4G with external power supply or LoRaWAN, NB-IoT, radio modem
OPC	Compliant via OPC SERVER
CONFIGURATION	Direct via "Rainbow configurator"

* Products are subject to change without notice.

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