



- Low-consumption technology ●
- Smart data communication ●
- Atex Zone 0 certified ●
- Small dimensions ●
- Datalogger and RTU ●
- Multi-protocol communication ●



G4P-ZERO

Remote monitoring
of pressure cabinets
or line points



G4P-ZERO

Remote monitoring of pressure cabinets, wherever you are

G4P-ZERO is designed for the **measurement, monitoring and remote control of the pressures and volumes/flows** on gas pipelines, gas reduction stations and user counter compartments. It can be installed in **potentially explosive atmosphere**, either indoor or outdoor, and runs GPRS/UMTS/LTE modem for remote communication and BLE for local. **G4P-ZERO** can operate as datalogger and thus collect data and communicate them on a daily basis to **SCADA**: data are constantly recorded in a historical queue with variable depth (mins., hours, days) and, when alarm thresholds are exceeded, the device forces the connection with SCADA to promptly report the event. **G4P-ZERO** can also operate as a real time unit (RTU). In this case, it gets polled periodically by SCADA.



An integrated solution for greater efficiency

COMPACT DESIGN

All the elements that contribute to the functionality of the device (measurement section, modem, memory, battery) are integrated in a single compact housing that makes it suitable for any application context.

MAINTENANCE & DIAGNOSTICS

To optimise maintenance work in the field, the device also transmits diagnostic parameters (communication, battery state, faults, etc.). The firmware update can be carried out both locally and remotely.

WEBPRESSURE

AUTOMA SCADA platform for the management of the data collected from pressure monitoring devices: alarms management, synoptics, analysis, real time monitor, time trends, graphical representation, cartography, regulatory compliance, reporting, device configuration, users management, advanced export capabilities, integration with third-party applications (SCADA, SAP, CARTOGRAPHY, etc.).

FIDO UNIVERSAL

The activities carried out by the operator in the field, both in terms of first device configuration and of installation/maintenance of the devices, are managed in the field by using **Fido Universal** application via local communication in Bluetooth Low-Energy and automatically synchronized with **WebPressure**.

A tailor-made solution for the protection of your network

PRESSURE TEMPERATURE AND DIGITAL INPUTS

2 pressure analog inputs for pressure transducer and 1 temperature analog input for PT100 sensor; 3 digital inputs for dry contact or counter.

ATEX ZONE 0 CERTIFIED

ATEX Zone 0 certified for direct installation in areas with high explosion risk when used as Datalogger. In presence of external power supply and RTU mode, it can be installed in ATEX Zone 1.

MULTI-POWER SUPPLY OPTIONS

When operating as a datalogger, it can be powered by its internal battery pack; whilst it accepts external power supply from main power or photovoltaic when working as a RTU. It is also possible to use an AUTOMA external battery pack ATEX certified where there is no external power and RTU mode is required.

DATALOGGER OR RTU MODE

G4P-ZERO can work either as a simple datalogger, with daily communication with SCADA and real time communication in presence of alarms, as well as a real time unit, with constant polling from SCADA.

CONFIGURABLE MEASURE TRANSMISSION

Transmission of daily reports or instantaneous value with a defined frequency, with the possibility of setting-up a historical queue. Immediate communication in presence of alarms conditions. When communicating with a SCADA system as a RTU, polling is possible every minute/hour/day.

MULTI-PROTOCOL COMMUNICATION

G4P-ZERO implements the principal communication protocol as MODBUS RTU, MODBUS ASCII, MODBUS TCP/IP, MODBUS ENRON, IEC 104, and more.



COMMUNICATION PORTS

- Local: BLE with Fido Universal management software
- Remote: 2G/3G/4G with WebPressure or other SCADA platforms

I/O INTERFACES

- 3 analog input measuring channels (connected to the ADC section of the machine), of which:
 - 2 for AUTOMA pressure transducers
 - 1 for the temperature transducer (PT100/PT1000 3 wires)
- 4 I/O, of which
 - 3 digital input for DRY CONTACT or counter
 - 1 analog input for measuring external power supply

POWER SUPPLY

- Internal: rechargeable/non-rechargeable battery pack
- External: BAT-LONG battery pack supplied by AUTOMA, DC 12-36V, solar panel, PELV AC/DC transformer, SOLAR BOX by AUTOMA

MECHANICAL DATA

- Dimensions: L 12.9 x H 9 x P 7.7 cm
- IP68
- Weight without/with internal battery pack: 0.25 kg - 0.55 kg

- Operating temperature: - 20 °C ÷ + 60 °C
- Relative humidity: from 10 to 95%

COMPLIANCE WITH STANDARDS

- UNI/TR 11631:2016
- EN IEC 60079-0:2018, EN 60079-11:2012
- ATEX II 1G Ex ia IIB T4 Ga

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Contact us



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