



G2P

# Remote control of pressure cabinets, wherever you are

G2P is designed for the measurement, monitoring and remote control of the pressures, temperatures and volumes/flows on gas pipelines, gas reduction stations and City Gate (Offtake) stations. It can be installed in potentially explosive atmosphere, either indoor or outdoor, and runs GPRS/ UMTS/LTE modem for remote communication. G2P normally operates as a real time unit: modem is always on and reachable at its fixed IP address for polling from WebPressure Software or from any SCADA system through standard communication protocols. G2P can also operate as a 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.









# A tailor-made solution for the protection of your network

## **INPUT RANGE**

Up to 6 pressure analog inputs for pressure transducer and 2 temperature analog inputs for PT100 sensor; 8 digital inputs for dry contact or counter. Possibility to add expansion board for adding up to 8 analog inputs for 4-20mA transmitters, 2 dry contact digital inputs and 2 dry contact digital outputs.

## ATEX ZONE 1 **CERTIFIED**

G2P is ATEX Zone 1 certified to be installed in areas with explosion risk.

## MULTI-POWER SUPPLY **OPTIONS**

G2P 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. As a datalogger, it can be powered by its internal battery pack.

## DATALOGGER **OR RTU MODE**

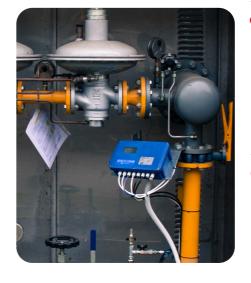
G2P device is principally intended to work as a RTU with constant polling from WebPressure or SCADA. However, it can also operate as simple datalogger, with daily communication with SCADA and real time communication in the presence of alarms.

## CONFIGURABLE **MEASURE TRANSMISSION**

When communicating with a SCADA system, polling is possible every minute/hour/day. Historical queues for measurements and events can be configured.

## MULTI-PROTOCOL COMMUNICATION

G2P implements the principal communication protocol as MODBUS RTU, MODBUS ASCII, MODBUS TCP/IP, MODBUS ENRON, IEC 104, and more.



# An integrated solution for greater efficiency

- COMPACT DESIGN context.

# **WEBPRESSURE**

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 with the Fido client software for Windows OS via local wireless communication in MiWi.

## **COMMUNICATION PORTS**

 Local: MiWi Remote: 2G/3G/4G with WebPressure or other SCADA platforms

## **I/O INTERFACES**

- 8 analog inputs for AUTOMA pressure transducers
- · 2 analog inputs for temperature transducer (PT100/

## PT1000 3 wires)

- 8 digital inputs for DRY CONTACT or counter
- · Expansion board (optional):
- · 8 analog inputs for 4-20mA transmitters
- · 2 dry contact digital inputs
- · 2 dry contact digital outputs POWER SUPPLY
- Internal: rechargeable battery pack
- External: BAT-LONG battery pack supplied by AUTOMA. DC 12-36V, solar panel, universal power supply 85-265V

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

## **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.

AUTOMA SCADA platform for the management of the data collected from pressure cabinets 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,

## **MECHANICAL DATA**

•	Dimensions: L 30 X H 8 X P 18.8 Cm
•	IP67
•	Weight with internal battery pack: 1.3 kg
•	Operating temperature: - 20 °C ÷ + 60 °C
•	Relative humidity: from 10 to 95%
COMPLIANCE WITH STANDARDS	
•	EN 60079-0:2012, EN 60079-0:2012/A11:2013,
	EN 60079-11:2012
•	II 2G Ex ib IIB T3 Gb Tamb: - 20 °C ÷ + 60 °C

