

G4P Nitrogen Sleeve Pressure Monitor

GOLIAHxP is the data-logger family for measurement, monitoring and remote control of pressure and volumes inside the pipelines, in reduction groups and counters compartments.

GOLIAH4P is ATEX certified with BVI 18 ATEX 0001X CE number and II 2G Ex ib IIB T4 Gb Tamb: - 20°C ÷ + 60°C protection to be directly installed in regulation station.

The GOLIAH2P operates as a data-logger, acquiring data and communicating them to the server automatically (WEBPRESSURE). Thus, the terminal constantly records data in an archive with variable depth (minutes, hours, days). In case of alarms, the device can force the connection to the server to immediately signal the alarm and communicate the functional state.

The communication protocol in the MODBUS (GNC, SIEMENS, RTU, ASCII, ENRON). It is possible to do an integration with already existing protocols.

The GOLIAH4P is equipped with an ATEX certified for GPRS/UMTS (2G/3G) communications.



ACCESSORIES/FEATURES

Pressure sensors and PT100 temperature probe

External antenna

Manufacturer's calibration certificate

Manual and safety instructions

Bracket for wall mounting

AUTOMA proprietary management and configuration software (FIDO), compatible with Windows 10 operating system with Bluetooth Low Energy (BLE) support

Supervision and data management platform sent by the devices (WEBPRESSURE)

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TECHNICAL CHARACTERISTICS

Low power microprocessor, 32-Bit RISC technology (80MHz) with integrated FLASH memory and bootloader, to allow remote firmware updates download

Communication ports:

- Wireless Bluetooth low energy 4.0 for local communication
- GSM/PRS/UMTS (2G/3G) modem for remote communication, sending data to the central server (automatically or at an operator request) and receiving firmware updates. The internal 2G/3G antenna is provided

Sensor interfaces:

- 2 pressure sensors (Wheatstone bridge). The pressure sensor is produced and supplied by Automa according to the customer's request. It is not allowed to use generic pressure sensors. The sensors receive power directly from the device and they are available in the following full-scale values:
- 70mBar, 450m bar, 1 bar, 7 bar, 20 bar, 70 bar, 1 temperature sensor (PT100/PT1000 a 3 fili, 1 digital input (dry-contact), 1 digital output (dry-contact), 1 analogic output for external battery voltage level

Accuracy of the acquired data: ± 0.02 on FS%

Low power supply, low voltage:

- Internal lithium battery pack (consisting of D series batteries)

Compatibility with MODBUS RTU AUTOMA communication protocol (for communication with WEBPRESSURE) and with the main communication protocols: MODBUS GNC, MODBUS SIEMENS, MODBUS RTU, MODBUS TCP, MODBUS ASCII, MODBUS ENRON

Impact resistant ABS enclosure with IP 68 protection

Two separate compartments, one to access to the wiring/electronics, the other to access the battery pack/SIM holder

Support for single standard SIM size

External dimensions: 129 x 85 x 77 mm

Functioning temperature range: $- 20^{\circ}\text{C} \div + 60^{\circ}\text{C}$

ATEX Certification: ATEX II 2G Ex ib IIB T3 Gb

Serial SPI flash memory for measurement memorization: 256 Mbit (32 M byte)