GOLIAH4P (G4P)

Data-logger, telemetry, remote control

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 serve 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.

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/GPRS/UMTS (2G/3G) MODEM for remote communication, sending data to the central server (automatically or at on 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
    - 450mBar
    - 1 Bar
    - 7 Bar
    - 20 Bar
    - 70 Bar

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- o 1 TEMPERATURE SENSOR (PT100/PT1000 a 3 fili)
- o 1 DIGITAL INPUT (dry-contact)
- o 1 DIGITAL OUTPUT (dry-contact)
- o 1 ANALOGIC INPUT for external battery voltage level
- Accuracy of the acquired data: ± 0.02 on FS%.
- Low power supply, low voltage:
  - o 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 container and 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°C ÷ + 60 °C
- ATEX Certification: ATEX II 2G Ex ib IIB T3 Gb
- Serial SPI Flash Memory for measurement memorization: 256 Mbit (32 MByte)

Accessories/integrations

- 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)