

# ENVOL

GAS VOLUME  
CONVERSION  
DEVICE



*In compliance with the MID directive, the ENVOL gas volume corrector offers our customers high-performance functions suitable for commercial and industrial use.*

Its intuitive configuration software is distinguished by its extreme ease of use and allows personalized configuration.

Using our electronic volume converter, you will be able to:

- Guarantee financial transactions
- Ensure continuous monitoring of consumption
- Implement energy saving actions

## ENVOL

MODBUS • MID • T / PT / PTZ  
INTUITIVE • COMPACT

## T, PT, PTZ CONVERSION

### Methods:

- AGA8-1, AGA8-2 & AGA8 detailed
- AGANX19
- BRKHOR 3H
- SGERG
- Per table Nitrogen

## VOLUME

- Unconverted volume registered by the meter ( $V_m$ ) and converted volume in reference (base) conditions ( $V_b$ ).
- Hourly log: 40 days
- Daily log: last 100 days
- Monthly log: last 14 months
- A calibration function is integrated into the equipment
- Thresholds on volume crossing

## MEASURES

Storage of the daily average pressure and temperature over 100 days.

## OUTPUTS

### Digital outputs (DO):

- Retransmission of unconverted volumes
- Retransmission of converted volumes
- Retransmission of an alarm (Conversion stop, Threshold exceeded)

## PRESSURE AND TEMPERATURE

Conversion stop when thresholds are exceeded with the possibility of reporting information.

## EVENT LOG

Events recording to ensure interventions traceability and the equipment operation.

## LIAISON MODBUS

### Slave mode:

- Link with PLC or Remote Terminal Unit (RTU)
- Modbus Addressing (contact us)

### Master mode:

- Only in chromatograph connection

## CHARACTERISTICS

### Approvals

- ◆ LCIE 08 ATEX 6056 X
- ◆  $\text{CE}$  0081  $\text{Ex}$  II 1 G
- ◆ Ex ia IIA or IIB T4
- ◆ EU type examination certificate n° LNE - 15546

### Pressure

- ◆ External pressure sensor
- ◆ Cable length : 3 meters
- ◆ Connection adapter: 1/4" BSP (Gas) male
- ◆ Ranges:
  - 1 to 7 bar absolute
  - 3 to 28 bar absolute
  - 18 to 90 bar absolute

### Temperature

- ◆ PT1000 class A probe
- ◆ Cable length : 3 meters
- ◆ Measurement from  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$

### Volume input

- ◆ 1 low frequency input pulse (20Hz max)
- ◆ HF option

### Digital outputs

- ◆ 3 digital outputs (DO)

### Communication ports

- ◆ 1 USB port for laptop PC connection
- ◆ 2 basic serial ports
  - RS232 or RS485

### Power supply

- ◆ Internal battery (5 years autonomy \*)
- ◆ Optional:
  - By external ATEX power supply
  - By external ATEX solar power supply

### Mechanical

- ◆ IP65 plastic enclosure
- ◆ H196 X L203 X P113 mm

### Environnement

- ◆ Mechanical: M1
- ◆ Electromagnetic: E2
- ◆ Operation:  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- ◆ Storage:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- ◆ Humidity: 10% to 93% non-condensing

\*According to the use conditions

