

ENVOL

Gas Volume Converter

MODBUS

T/PT/PTZ

MID



INTUITIVE

SMALL FOOTPRINT



ENVOL

FEATURES



In order to meet the highest demands in terms of reliability and accuracy, SIS offers the ENVOL Gas Volume Conversion Device for transactional metering.

Compliant with the MID directive, the system offers customers powerful functions suitable for commercial and industrial uses.

Its intuitive configuration software stands out for its simplicity of use and personalized configuration capabilities.

The interoperability of the ENVOL system is a major asset: it adapts not only to other products in the SIS range, but also to a multitude of third-party devices.

T, PT, PTZ conversion

- Méthodes :
 - » AGA8-1, AGA8-2 & detailed AGA8
 - » AGANX19
 - » BRKHOR 3H
 - » SGERG
 - » By Nitrogen table

Volume

- Volumes under the measurement conditions (V_m) and base volumes (V_b).
- Storage of hourly volumes and indexes for up to 40 days
- Storage of daily volumes and indexes for up to 100 days
- Storage of monthly volumes and indexes for up to 14 months
- The device includes a calibration function
- Volume thresholds

Measurements

- Storage of average daily pressure and temperature over 100 days

Outputs

- Digital outputs (binary):
 - » Retransmission of gross volumes
 - » Retransmission of corrected volumes
 - » Retransmission of alarms (Conversion stop, Threshold exceeded)

Pressure and temperature

- Stop conversion on crossing thresholds with ability to report information
- Envol stores the following data:
 - » Conversion stoppage time
 - » Hourly converted volume alarm
 - » Daily converted volume alarm
 - » Gross index alarm

Event log

- Recording of events regarding the traceability of interventions and operation of the equipment

Modbus Link

- Slave mode :
 - » Link with PLC or remote transmission / remote metering station (RTU)
 - » Address table (contact us)
- Master mode:
 - » Only with chromatographic link

ENVOL / CHARACTERISTICS

Certification / Homologation

- LCIE 08 ATEX 6056 X - CE081 Ex 1 G Ex ia IIA or IIB T4
- EN12405-1/ A1
- MID 2004-22-CE
- Type Examination Certificate (LNE)

Pressure

- External pressure sensor
- 3 metre cable
- 1/4" BSP Gas connector
- Ranges:
 - » 1 to 7 bar absolute
 - » 3 to 28 bar absolute
 - » 18 to 90 bar absolute

Temperature

- PT1000 class A probe
- 3 metre cable
- Measurement from -40° C to + 70° C

Metering input

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

Outputs

- 3 digital outputs (binary)

Communication ports:

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

Power supply

- Internal battery (autonomy 5 years)*
- Optional:
 - » ATEX external mains power supply
 - » ATEX external solar power supply

Mechanical

- IP65 plastic box with dimensions H196 X W203 X D113.

Environment

- Mechanical: M1.
- Electromagnetic: E2
- Operation: -25° C to + 70° C
- Storage: -40° C to + 85° C
- Humidity: 10 to 93% without condensation

*Depending on the conditions of use