KET-CVI-100

| IP65 | RS485 ModBUS | GPRS/UMTS | UPS |

Volumetric gas corrector

- **Non-return protection for safe mounting**
- **Easy and precise positioning**
- **Wide measuring range**
- **Available with battery power supply**

The **KET-CVI-100** is a Type 1 gas volume converter, data logger and communicator with GPRS/GSM/SMS modem, **integrated in a single container** and installed in a dangerous area, particularly in the zone classified as **Zone 1**.
It is designed to calculate gas volumes at base conditions, according to measurement conditions, temperature, pressure and compressibility of the gas.
Gas volumes are acquired through a low-frequency input (BF). The pressure and temperature transducers can be installed in a zone classified as **Zone 0**.
The KET-CVI-100 module complies with the **UNI EN12405-1:2010** standard and meets the requirements of the **MID** according to Annex MI-002 (gas volume conversion devices) according to the Welmec 7.2 Issue 5 guide.
It complies with Resolution ARG/gas 155/08 and **UNI-TS 11291**.
The calculation of the compressibility factor of the gas is carried out according to **ISO 12213-3** (SGERG-88) or by imposing a fixed user-programmable Zb/Z factor.

APPLICATIONS

Accounting

MAGGIORI CONTENUTI ONLINE

TECHNICAL FEATURES	
GENERAL SPECIFICATIONS	**Protection Range**: IP65 **Operative Temperature**: -30 ÷ +65 °C **Storage Temperature**: **Relative Humidity**:
CASE	**Dimensions**: 190 x 130 x 100 mm (W x H x D) **Mounting**: Wall **Material**:
POWER SUPPLY	**Supply Voltage**: 12 VDC ±10% @ 500 mA **Consumption**: **Connectors types**: 2xMR1
UPS	**Battery Type**: 12 VDC lead battery **Approximate Battery Life**: 5 years
DATALOGGER FUNCTION	**Memory Type**: Non-volatile **Data Storage Capacity**: Monthly Trace for 12 months; Daily Trace for 12 months; Four-hour Trace for 62 days
RS485 INTERFACE	**Supported Protocols**: ModBUS RTU **Communication Rate**: **Isolation**: **Connectors types**: Screw terminal
DIGITAL INPUTS	**Channels**: 3 general purpose (clean contact) **Digital Inputs**:
DIGITAL OUTPUTS	**Channels**: 2 opto-isolator outputs, each configurable **Voltage Output**:
ANALOG OUTPUTS	**Output Type**: 4-20 mA passive configurable
MODEM	**Supported Protocols**: SMS/GSM/GPRS/UMTS: POT or Snam Old **Radio Frequency**: **Antenna Type**: **SIM Type**:
TEMPERATURE SENSOR	**Measure Range**: -50 ÷ +300 °C **Precision**: PT1000 class A ±0,15 °C @ 0 °C **Repeatability**: **Resolution**:
PRESSURE SENSOR	**Measure Range**: 0.8 ÷ 80 bar absolute **Precision**:
CERTIFICATIONS	**Referends Standard**: MID: 014/32/UE; R&TTE: 1999/5/EC; EMC: 014/30/UE **Approvals**: CE **Security**: ATEX: 014/34/UE **Metrology**: UNI/TS 11629:2016; can be installed in Zone 1

130 mm

100 mm   190