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## BATTERY VOLUME CONVERSION DEVICE

Model EK205

### Product informations

**EK205**, battery-operated volume conversion device designed for applications on standard gas meters, this device calculates the gas volume on the basis of consumption data supplied by flow-proportional pulses from the connected meter and the measurements of gas pressure and temperature.

### Product features

- it can be installed on any type of gas meters
- equipped with control panel with 4 buttons and LCD display
- two freely programmable transistor outputs and two digital inputs
- powered by a 3,6V lithium battery
- monthly, daily and measurement archive
- pressure sensor: type CT30 capacitive ceramic, flexible with M12x1.5 thread
- temperature sensor: 4-wire resistor type PT-500 conforming to EN 60751, class A
- IEC 62056-21 compliant optical interface for local configuration and readout
- integrated RS232 / RS485 interface
- *communication protocol IEC 62056-21, DLMS/COSEM, ASCII/RTU/TCP, SMS*
- *MID approval*
- *ATEX II approval*

### Applications

- Calculation of converted volume according to EN12405
- Calculation of compressibility according to different calculation methods



## Technical Features

|                               |   |
|-------------------------------|---|
| <b>CASE MATERIAL</b>          | PLASTIC POLYCARBONATE FOR INSTALLATION ON THE METER, ON THE PIPE OR ON THE WALL   |
| <b>DEGREE OF PROTECTION</b>   | IP65 (PROTECTED AGAINST JETS OF WATER PUMPED FROM ANY DIRECTION AND COMPLETELY HERMETIC AGAINST DUST AND FUMES) IN ACCORDANCE WITH EN 60529   |
| <b>POWER SUPPLY</b>           | 1 LITHIUM BATTERY 3.6 V - CAPACITY 13 AH  |
| <b>PANEL CONTROL</b>          | 4 BUTTONS   |
| <b>DISPLAY</b>                | BACKLIT LCD, MONOCHROME - H 128 PIXELS / W 64 PIXELS  |
| <b>INPUTS</b>                 | TWO DIGITAL INPUTS  |
| <b>OUTPUT SIGNALS</b>         | 2 TRANSISTOR DIGITAL OUTPUTS  |
| <b>ARCHIVES</b>               | <ul style="list-style-type: none"> <li>• ARCHIVE FOR MONTHLY VALUES, CAPACITY: 24 LOGS</li> <li>• ARCHIVE FOR DAILY VALUES, CAPACITY: 600 LOGS</li> <li>• ARCHIVE MEASUREMENT, CAPACITY: 10,000 LOGS</li> </ul> |
| <b>DATA INTERFACE</b>         | OPTICAL INTERFACE IN ACCORDANCE WITH IEC 62056-21   |
| <b>ROOM TEMPERATURE RANGE</b> | - 25°C ÷ + 55°C   |
| <b>HUMIDITY RANGE</b>         | 0 ÷ 90%   |
| <b>PRESSURE SENSOR</b>        | TYPE CT30   |
| <b>SENSOR PRESSURE RANGE</b>  | 0,8 ÷ 5 BAR / 2 ÷ 10 BAR / 4 ÷ 20 BAR   |
| <b>TEMPERATURE SENSOR</b>     | TYPE PT-500, 4-WIRE RESISTANCE - CLASS A  |
| <b>DIMENSIONS</b>             | 140 X 160 X 88 MM (HXWXD) - WITHOUT CABLE GLANDS  |
| <b>WEIGHT</b>                 | ABOUT 1.3 KG (INCLUDING BATTERY)  |

| SKU         | MODEL                         | PRICE      |
|-------------|-------------------------------|------------|
| 00000050558 | VOLUME CONVERTER - MOD. EK205 | ON REQUEST |



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