Honeywell | Connected Industrial

Elster® EK205

Battery-operated Volume Converter for Standard Gas Meter Applications

Volume Conversion/Comprehensive Data Logging/ Flexible Data Communication

The Honeywell Elster EK205 is a battery-operated volume conversion device that can be easily mounted onto gas meters from Elster or other manufacturers. Powered by a lithium battery for a minimum five-year service life, the device calculates gas volume at base conditions on the basis of consumption data supplied by flow-proportional pulses from the connected meter and the measurements of gas temperature and pressure. The EK205 in the version without a pressure sensor can be used as a temperature converter. The data logging function, serial interface and different data communication protocols allow integration in head-end and Supervisory Control and Data Acquisition (SCADA) systems.



Technical Specifications

Metrological Approval
- MID approval as PTZ, PT and T-Converter
- Conform to EN 12405-1:2011-04

Certifications
- ATEX II 1 G Ex ia IIC T4 Ga

Housing, Dimensions & Weight
- Plastic polycarbonate for meter, pipe or wall mounting
- Designed to be easily mounted onto Elster gas meters or other brands
- H 140 mm x W 160 mm x D 88 mm without cable glands
- Approximately 1.3 kg (including battery)

Environmental Conditions
- Ambient Temperature range: -25° to +55°C
- Ambient Humidity range: 0 to 93% condensing

Protection Class
- IP 65 according to EN 60529

Power Supply Options
- 1 Lithium Battery 3,6 V, capacity: 13 Ah (service life > 5 years under standard operating conditions)
- Optional: External Power Supply 6-9 VDC max. 50 mA

Pressure Sensor
- Type CT30, capacitive ceramic pressure sensors
- Pressure ranges 0.8-5, 2-10 and 4-20 bar absolute (other pressure ranges on request)
- Connection for precision steel pipe (Ermeto 6L) or flexible pressure tube, M12 x 1.5 thread

Temperature Sensor
- Type Pt-500-four-wire resistance thermometer
- EN 60751, Class A
- Temperature range: -30° to +60°C
- Protective tube for use with thermowell
- Installation length: 50 mm, Ø 6 mm, cable length: 0.7 m or 2.5 m

Communication Protocols
- IEC 62056-21
- DLMS/COSEM (for Software Download)
- Modbus ASCII/RTU/TCP
- Send SMS

(Other communication protocols on request)

FEATURES & BENEFITS

- Meter-, pipe- or wall-mount
- Converted volume calculation according to EN12405
- Compressibility calculation in accordance with AGA-NX19 mod, AGA 8 (GC1 or GC2), AGA 8 DC-92, S-GERG 88, AGA-NX19 or fixed
- Monochrome backlit dot-matrix LCD display, 128 pixels wide, 64 pixels high
- Control panel with 4 buttons
- Two digital inputs
- Two freely programmable transistor outputs (pulses, status)
- Monthly (24 logs) , daily (600 logs) and measurement archive (10.000 logs)
- Two flexible archives (content, recording interval and additional events, which cause a record can be configured)
- Logbook (500 logs) and Audit Trail (100 logs)
- Optical interface in accordance with IEC 62056-21 for configuration and local read out
- Integrated RS232/RS485 interface
- Modbus communication in RTU, ASCII and TCP mode
- Software download in accordance with WELMEC 7.2
- enSuite configuration and maintenance software

For more information

To learn more about Honeywell Elster's Gas Solutions, visit www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

Germany
Elster GmbH
Steinern Str. 19-21
55252 Mainz-Kastel
T +49 6134 605 0
F +49 6134 605 223
www.elster-instromet.com
info@elster-instromet.com

Belgium
Elster-Instromet N.V.
Rijkmakerlaan 9
2910 Essen
T +32 3 670 070 0
F +32 3 667 694 0
www.elster-instromet.com
info@elster-instromet.com

Singapore
Elster-Instromet Sdn. Bhd.
(Singapore Branch)
160 Paya Lebar Road
#04-01 Orion@Paya Lebar
Singapore 409022
T +65 624 777 28
F +65 624 777 29
sales@elster-instromet.com.sg

Elster® is a registered trademark of Honeywell International, Inc.

BR-16-11-ENG | 01/17

©2017 Honeywell International Inc.

Honeywell