EK260

Electronic Volume Corrector with integrated data logger

Applications

The EK260 volume corrector can be universally used for official billing purposes. In addition, the integrated tariff function makes it possible to establish a customer's consumption profile and to display the official peak load values of a day and/or metering period.

Brief information

The EK260 is a compact system comprising a central unit, an integrated pressure sensor and a Pt-500 temperature sensor.

Operation
Using the 6-key keypad all of the actual readings and parameters as well as the archive data can be accessed and the parameters are also set via the keypad. The data is organised in a two-dimensional table which can accessed via the cursor keys as required.

Additional functions
One of the main features is the event-oriented storage of the readings for actual and standard volumes, pressure, temperature, C- and super compressibility factor which keeps data for up to nine month. This means that data can be archived within one metering period and also when some special event occurs (e.g. when limits are exceeded). In this way it is possible to find a reading at any one particular time without having to make any complicated calculations.

The device also includes a logbook with a capacity for up to 250 entries. Using this logbook it is possible to monitor the operation of the EK260 and to trace operating errors more easily. Any changes to the parameters are documented in a further logbook.

The device can be integrated in remote data transfer systems and this leads to a fully-automatic data transfer (no manual intervention in the data chain). This means that the billing data is available much faster. On top of this, errors in the course of the readout and data transfer can be eliminated.

The LIS-200 system and the WinLIS software package are available in order to evaluate the data.
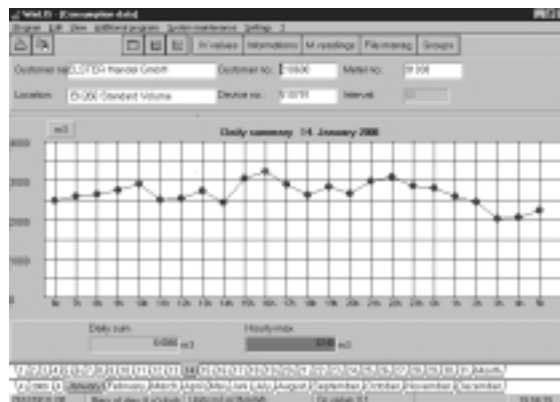
Outputs
Using the four freely-programmable digital outputs it is possible to transmit the volumes in the form of pulses, to monitor the operation or to transmit error messages via a message switch.

Versions
The EK260 is designed for installation on the wall. However, with the aid of a bracket, the device can also be installed directly on the meter.

Main features

- **System volume corrector including calculation of super compressibility factor**

- **Data logger of actual and standard volume readings as well as mean pressure and temperature values, C- and super compressibility factor**

- **High accuracy**

- **Mains-free operation**

- **Suitable for use in Zone 1 hazardous areas**

- **Possibility of integrating device in remote data transfer systems**

- **PTB approval for national calibration for volume corrector and peak-load display function**

- **Four freely-programmable digital outputs**

- **Option: Readout of Encoder-Index**

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Technical data

Order number	83462140
Housing	Cast aluminium, for installation on the wall or on the meter
Dimensions	Width 200, height 200, depth 102 mm
Weight	Approx. 2.8 kg (including 4 batteries)
Protection class	IP 65
Ambient conditions	With pressure sensor CT30 -20°C to +60°C
	With pressure sensor PDCR900 -10°C to +50°C
	Suitable for outdoor installation
Power supply	2 lithium battery modules (operating life >5 years at standard conditions)
Option	Operating life can be extended by installing two additional lithium battery modules
	Mains powered by using external power supply
	Battery can be changed without breaking calibration seals
Control panel	6-key plastic-coated keypad
Display	2-line DOT-Matrix display with standard character description of displayed data
Calibration switch	Inside the device
Digital inputs	3 digital inputs to connect pulsers (f< 8 Hz) and message signals
	(e.g. manipulation switch, time synchronisation)
	Option: Readout of Encoder-Index
Pressure sensor	Two different pressure sensors (CT30 or PDCR900) integrated in the housing,
	precision steel-pipe connection (Ermeto 6L), 12 x 1.5 thread
	Pressure ranges up to 70 bar (absolute)
Temperature sensors	Pt-500 resistance thermometer in accordance with DIN 60751, including protective covering
	for use in a thermowell
	Version with fixed cable connection
	Length 50 mm Ø 4 mm, cable length 0.7 m or 2.5 m
	Length 160 mm Ø 6 mm, cable length 0.7 m or 2.5 m
Compressibility	Calculation in accordance with S-GERG-88 or programmable as a constant
Signal output	4 digital outputs, freely-programmable for use as
	- pulse output for all actual and standard volume meters
	- message output for alarm and/or warning messages
Data interface	Optical interface in accordance with IEC1107
	Internal serial interface, programmable as RS-232 or RS-485 interface, for connecting to a Modem

Your contacts

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