

EK-90/K

Electronic Volume Corrector



This product is discontinued!

Applications

The EK-90/K volume corrector is the ideal solution for billing customers with special contracts.

The EK-90/K is used for customers whose bills are not calculated on the basis of peak performance or by means of tariff devices.

Brief information

The EK-90/K is a compact, battery-operated device consisting of a central unit with a built-in pressure sensor and a permanently-attached Pt-500 temperature sensor.

Operation

There are four keys used to operate the EK-90/K and to set the parameters. The data is displayed on a 12-digit display; abbreviations are used to identify individual values.

Additional functions

The 15 end-of-month standard volume readings displayed in the device can be viewed on site or can be transferred via a readout device to a laptop for further processing.

These meter readings can then be processed using the WinLIS evaluation software.

The EK-90/K has four digital outputs and is therefore capable of transferring all sorts of information to any other evaluation unit. This can be done in the form of pulses or status information. All of the outputs can be programmed separately. No additional power supply is necessary for continuous operation.

Setting parameters

The Windows program WinPADS and the KD-100/PS2 connecting cable are available in order to make setting the parameters and reading out the data as easy as possible.

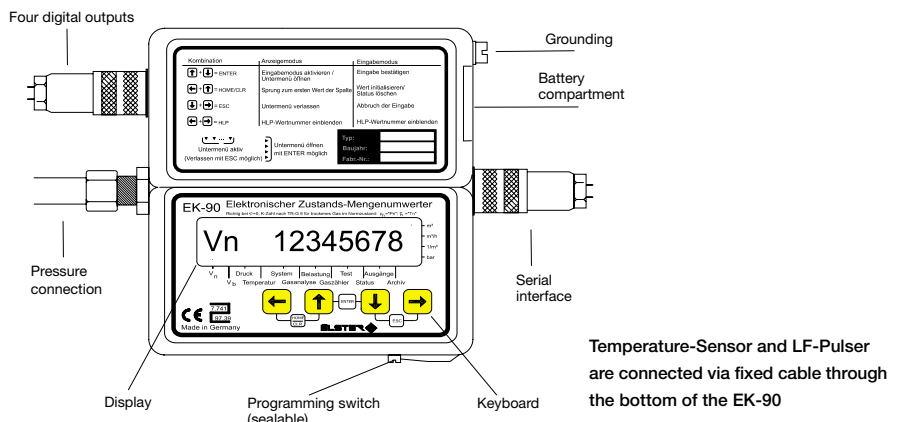
Alternatively, the parameters can be set via the keypad.

Available versions

The EK-90/K is available in two different versions. When the device is mounted directly onto the totalizer head of a turbine gas meter or a rotary positive displacement meter, the pulses are transmitted via the internal pulser. If a bracket is used to mount the device on the wall, the pulses are transmitted via cable.

Main features

- System volume corrector
- Compressibility calculated in accordance with S-GERG-88
- Monthly storage of standard volume meter readings
- High accuracy
- Electronic readout of meter readings via serial interface
- Four freely-programmable digital outputs
- No mains power supply necessary
- Approved for use in EX-Zone 1 hazardous areas
- PTB approval for national calibration



Technical Data	
Order number	83 462 040, version to connect external pulser or version with built-in pulse
Housing	Cast aluminium housing for wall or meter assembly
Dimensions	124 wide x 70 high x 124 deep (mm) (not including connections)
Weight	ca. 1.4 kg
Ex-protection	Zone 1, ID: EEx ia IIC T3
Protection class	IP 54
Ambient conditions	Temperature: -20°C bis + 50 °C Relative humidity max. 93 %, no condensation No exposure to direct sunlight
Power supply	1 Lithium-Battery modul, batteries can be changed without braking the calibration seal and without lany loss of data
Control panel	Plastic-covered keypad with four keys
Display	12-digit LCD-display Description of the displayed data in the form of abbreviations
Calibration switch	Inside the device, accessible via borehole in the housing, no need to open the device
Pulse inputs	Internal: for instrument drive, outer diameter 25 mm External: for up to two pulsers (f < 10 Hz), with additional input to identify any manipulation
Pressure sensor	Built into the housing, connection for precision steel pipe (Ermeto 6L), M 12 x 1.5 Measuring ranges for custody transfer up to 35 bar (absolute)
Temperature sensor	Pt-500 resistance thermometer in accordance with DIN 60751, DIN-Class B. Suitable for use with thermowells with a length of 50 mm Ø 4mm, length of cable 0.5 m or 2.5 m with a length of 160 mm Ø 6mm, length of cable 0.5 m oder 2.5 m Gas temperature range for custody transfer -10°C up to +60°C
Compressibility	Calculation in accordance with S-GERG-88 or programmable as a constant
Signal outputs	4 digital transistor outputs, for use as required - Pulse output for actual and standard volume -Signal output for alarm and/or warning messages
Serial interface	Serial interface similar to RS-232C, plug-in interface for setting parameters for the EK 90/K and reading out the stored meter readings
Measuring errors	In an ambient temperature range -10 °C up to +40 °C - actual volume: no loss of pulse - standard volume: < 0.5 % of measured value

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