

Model 333

Electronic volume corrector

This product is discontinued!

Applications

Simple volume corrector for invoicing purposes
For use in installations with pressure ranges up to 10 bar
Takes compressibility into account as a fixed value

Brief information

The Model 333 electronic volume corrector converts the operating volumes recorded, using the gas meter's LF pulses on the basis of gas pressure and temperature measurements, while compressibility is taken into consideration as a fixed value.

The volume corrector is intrinsically safe and can be installed on the gas meter directly in hazardous areas or in close proximity to them. The voltage is supplied by a replaceable lithium battery, which guarantees a service life of 10 years under normal operating conditions. Batteries can be changed without loss of data, as all operating parameters are filed in a non-volatile memory.

Display: All the necessary meter readings, measured values and operating parameters are shown sequentially on the 8-digit numerical LCD display at the press of a button. Additional brief descriptions are displayed for the identification of the values. The scope of the operating parameters to be displayed can be set individually.

Configuration: For reading out and/or setting or changing the operating parameters, user-friendly 333 for Windows software is available. The necessary connection between the volume corrector and the PC is made using an appropriate programming cable. The security of pre-set data is guaranteed by the use of passwords and/or a programming switch located within the unit.

Additional functions: The volume corrector has two electrically isolated passive transistor outputs that can be configured for the output of flow-proportional pulses for both operating and standard volumes. In addition, a digital, optically isolated output is used for signalling alarm states, such as the violation of set pressure or temperature limit values. The serial port allows the connection of external devices (e.g. a modem) for direct access to the process data and operating parameters.

Installation: The unit can be supplied both for installation on a stand, on a wall, or for direct installation on a gas meter. The pressure sensor is integrated in the housing and is connected using an Ermeto pipe via a shut-off valve, if necessary, to the pressure tap on the gas meter or gas pipe. The temperature sensor is permanently connected to the unit and is intended for use with a temperature sensor thermowell. The gas meter output (LF pulse) will be connected to screw terminals of the volume corrector.



Main features

- Volume corrector for pressure ranges up to 10 bar
- Approval according to European standard EN 12405
- Mains-free operation
- Aluminium weatherproofed housing IP 66
- Battery life 10 years
- Use in hazardous areas
- High accuracy
- Compressibility programmable as fixed value
- Alarm state input
- Two pulse outputs
- Status output
- Serial port
- Simple operation
- Configurable display range

Model 333: Electronic volume corrector

Technical data

Order number	BOM1260
Housing	Cast aluminium, wall or meter mounting
Dimensions	H 121 mm x W 121 mm x D 71 mm (not including connections)
Weight	Approx. 1.3 kg (including battery)
Metrological approvals*	Approvals in accordance with European standard EN 12405 NMI - T5457 / T3374 PTB - 7.741/99.46
ATEX approval	Approval for use in Zone 0, ID: EEx ia IIB T4
Protection class	IP 66 in accordance with EN 60529
Ambient conditions	Temperature: -20 to +60 °C Relative humidity: max. 93%, non-condensing No direct solar radiation
Power supply	One 3.6 V, 8 Ah lithium battery module (service life > 10 years under standard operating conditions)
Control panel	1 button
Display	8-digit LCD display with additional special characters for unique identification of the values displayed. The scope of the values to be displayed can be configured.
Pulse inputs	1 pulse input for connection to the gas meter (max. input frequency 1 Hz) 1 digital alarm state input for connecting message signals (e.g. manipulation contact)
Pressure sensor	Absolute pressure sensor, PDCR1820 type, with linearity and temperature compensation, integrated in housing Connection (1/8" NPT internal thread) for precision steel pipe (Ermeto 6L) Available pressure measuring ranges up to 10 bar depend on national metrological approvals (details in bar absolute, overpressure-proof to 125% P _{max})
Temperature sensor	Resistance thermometer, PTC-design, with Ø 6 mm protective tube, for use with temperature sensor pockets. The shielded cable (length 2 m) is permanently connected to the unit. The maximum permitted temperature range is -30 to +60 °C.
Compressibility	Programmable as a constant (fixed value)
Signal outputs	Two pulse outputs and one alarm output, each freely programmable. Pulse duration can be selected: 10, 40 or 320 milliseconds. The outputs are electrically isolated, passive, open collector outputs. Maximum voltage 7 V DC / maximum current 0.5 mA
Data interfaces	3-pin plug connector (Fischer receptacle) for connecting a Model 999 programming cable or external devices (e.g. modems)

* In addition several national approvals are also available. For further information please contact our corresponding office

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