Model 999

Electronic volume corrector

This product is discontinued!

Applications

Universal volume corrector with integrated flexible data logging function and three independent serial interfaces



Brief information

The Model 999 electronic volume corrector converts the operating volumes recorded, using the gas meter's LF pulses on the basis of gas pressure and gas temperature measurements. Compressibility is calculated to S-GERG-88, AGA NX 19, AGA 8 and nitrogen (100%) or is taken into account 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 front contains two LCD displays for visualising all the data, controlled by five freely programmable buttons and an infrared interface for data communication.

The permanently connected temperature sensor (Pt-100), the mechanical pressure sensor connector (1/4" NPT), 3 cable glands for the internal connection terminals and a screw for connecting the equipotential bonding are all located on the outside of the housing. A 3-pin plug connector (Fischer receptacle) is intended for local serial data communication.

Data logging function: The corrector can be configured to log up to 5 separate tables of data. Each table can be configured to log selected parameters at a specific time interval. The time interval can be different for each table and can be set from 1 minute to 24 hours.

The number of logs for each table can be set up to the available memory size.

Logged data can be read via one of the serial communication ports or by the lower LCD display.

An event/alarm archive records all parameter changes and alarm messages, each with a date/time stamp.

Additional functions: Two electrically isolated passive transistor outputs can be configured for the output of flow-proportional pulses for both operating and standard volumes. In addition, a digital, optically isolated status output is used for signalling alarm states.

The volume corrector has three independent serial ports, an infrared port on the front cover and a local port (Fischer connector) for local data read out or service/maintenance. The internal modem port can be used for connecting external devices (e.g. modems). The volume corrector can be used for applications for remote data readouts. In this context, there is the additional opportunity to use a self-dialling function for error/alarm signalling or data transmission.

Main features

- Volume corrector for pressure ranges up to 80 bar
- Approval according to European standard EN 12405
- Mains-free operation
- Aluminium weather-proofed housing IP 66
- Use in hazardous areas
- High accuracy
- Freely configurable data storage function
- Alarm and event archives
- Time or volume-weighted temperature and pressure average values
- Compressibility in accordance with S-GERG-88, AGA NX-19, AGA 8 (GC1 or GC2), nitrogen (100%) or programmable as fixed value
- Possible integration into remote data transfer systems
- Self-dialling function in the case of error/alarm or for data transmission
- Two configurable LCD displays
- Alarm state input
- Two pulse outputs
- Status output
- Three independent serial ports



Your contacts

Technical data

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