

FLOW COMPUTER ERZ 2000-DI

Experience makes RMG a leading supplier in natural gas measurement. This is also evident in the ERZ 2000-DI flow computer – a volume corrector that is specially tailored to the needs of distribution network operation.



Now with Instance-F

Standardised and simple data communication with Ultrasonic sensors

THE NEW RMG ERZ 2000-DI FLOW COMPUTER

RMG volume corrector for distribution network operation

The new ERZ 2000-DI presents itself as a cost-conscious solution without forgoing the usual reliability of RMG flow computers for volume correction. In stations with few meter runs and at exit points, a lean and user-friendly volume corrector is required.

Reliable volume correction

The ERZ 2000-DI can be used in custody transfer or secondary metering applications in combination with various types of gas meters. The connection of a mechanical meter is made via pulse inputs or via an encoder unit.

Ultrasonic flowmeters are connected to the flow computer via the standardized DSfG F entity or via Modbus. Various explosionproof-enclosed and intrinsically safe transmitters are approved for pressure and temperature measurements. Transmission may be analog or digital via HART.

Gas analysis values can be imported via Modbus or programmed as fixed values in the ERZ 2000-DI.

New equations of state

The most modern, complete and precise reference equations of state are a fundamental component of the ERZ 2000-DI: The AGA8 (2016), GERG-2008 and GERG-2004 set new standards.

Of course, the ERZ 2000-DI also comes with all other common equations of state for gas volume measurement, including SGERG 88, AGA8 DC-92, Gross 1 and 2, NX-19 mod and with the option of constant K.

Signed data retrieval

The measuring data are archived in the integrated data logger for retrieval. For fast, uncomplicated data retrieval, Modbus and DSfG class B transmission protocols are available. If necessary, there is also the option of data signature.

Innovative user guidance

The ERZ 2000-DI provides an innovative user interface for interactive commissioning and operation.

All information is available via common internet browsers, a separate operating software is not required. Living values are immediately updated in the Internet browser so that measured data, the status of the calibration switch or messages can be traced at any time.

The number of necessary parameters has been adapted to the typical applications in distribution network operation. This makes all measured values and parameters easily accessible and manageable.

Easy commissioning

The new wizard as an intelligent configuration assistant guides the user step by step through the commissioning process. Typical standard configurations are preconfigured and only need to be adjusted if necessary. The configurations of the possible technical options are provided in interactive selection menus. For example, the presets for installed pressure and temperature transmitters can be selected by a simple mouse click. The required parameters are automatically set by the wizard and adopted in the configuration.

Commissioning and operation of a flow computer have never before been so intuitive and efficient.

TECHNICAL DATA

Model ERZ 2000-DI				
Housing	19" / 3 HE - 42 TE (W x H x D = 213 x 128.4 x 310 mm)			
Metrological approval	MID, MessEG			
Ambient conditions	- 20 °C bis + 55 °C			
Power supply	24 V/DC			
Power input	Max. 24 W			
Control panel	Touchscreen			
Display	LCD-TFT			
Communication	Inputs	Outputs		
	Current inputs	5x	Pulse outputs	4x
	Resistance inputs	2x	Current outputs	4x
	Frequency inputs	4x	Contact outputs	8x
	Contact inputs	8x		
Data interface	2x TCP/IP 5x serial interfaces optionally signature			
Communication protocols	Modbus (RTU, ASCII), RS485, Ethernet, USM Instance-F, DSfG-B / IP, HART - Master, Encoder interface			
Compressibility	Gerg 2008, Gerg 2004, Gerg 88S, AGA 8 (2016), AGA 8 DC-92, AGA 8 Gross 1, AGA 8 Gross 2, AGA NX-19, AGA NX-19 mod, k-constant			
Memory	>4 GB			

Five advantages of the integrated operating and installation software:

1. No PC installation necessary
2. Can be used with common internet browsers
3. Remotely and locally applicable
4. Intelligent user guidance and living values
5. Intuitive wizard as a step-by-step configuration assistant



Highlights of the ERZ 2000-DI Flow Computer

- Lean, easy-to-use volume corrector designed specifically for the needs of distribution system operators.
- Intuitive configuration and operating without separate software, usable with Internet browser, locally and remotely.
- Easy commissioning with an interactive wizard, the intelligent configuration assistant for the ERZ 2000-DI.
- Standardized Modbus registers (DSfG entity F) for easy communication with ultrasonic meters.
- Signed data retrieval via Modbus and DSfG class B.
- K-coefficient calculation with the latest equations of state according to AGAB DC (2016), GERG 2008 and GERG 2004.



ONE STEP AHEAD

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