TriLIN

LNA series of Linearizers / Flow Computers

The TriLIN LNA Series Linearizer/Flow Computer amplifies, linearizes, and scales the frequency signals of Turbine flow meters. In the versions with Temperature Compensation capability, correction for the effects of temperature and viscosity is performed in real time using proprietary methods, resulting in accurate flow measurement under all conditions.

No user lockout! The TriLIN is supplied with open software architecture which allows user defined and controlled password protection. All scaling and programming functions are open and are accessible by the user.

The TriLIN Flow Transmitters combine in a single instrument, Linearization, UVC temperature compensation, signal conditioning, user-selectable outputs and advanced communications options.

The user-friendly FlowHow+ programming software allows easy programming of flow calibration and fluid properties data as well as linearization and scaling of Flow and Temperature outputs.

Advantages

- Programmable with PC Software. No password lock – the user has access to the scaling and programming of the device!
- Open software architecture with user-defined password protection. ALL scaling and programming options are accessible by the end user.
- User-friendly FlowHow+ programming software with run-live mode for easy programming and troubleshooting of all available functions and features.
- Multifunction display versions showing all important process parameters like Flow, Viscosity, Temperature, Fluid ID, etc.
- Available in a variety of connector configurations
- Mass and Volumetric flow capability
- Linearized Flow and Temperature outputs
- UVC correction capability for the effects of Temperature and Viscosity (Temperature compensated versions only)
- Sophisticated proprietary interpolation algorithms for Flow, Temperature, Density and Viscosity data

Made in Germany

Specifications

Power Supply:

- 6 - 36 VDC (no Display)
- 9 - 36 VDC (with Display)

Inputs:

Flow:

- Frequency Modulated Carrier, 0-4 kHz, Pulse, TTL, 0-10 kHz

Temperature:

- PT100, 4 wire

Outputs:

Flow:

- Frequency, linearized, scaled TTL, Analog, 0-10V, linearized and scaled, 4-20mA optional

Temperature:

- Analog 0-10V, linearized and scaled, 4-20mA optional Analog

Resolution: 16 bit

Linearization:

- Flowmeter K-factor using UVC correction
- +/-0.1% Of Reading
- Compensation for Temperature,
- Viscosity and Density

Temperature:

- Operating: -40° C to +85° C
- Storage: -55 to +125°C

Housing:

- Dimensions: 112mm x 108 mm x 43 mm
- IP 50

TrigasDM GmbH • Erdinger Str. 2b • 85375 Neufahrn • Germany • Tel.: +49 8165 9999 300 • www.trigasdm.com

Linearization and Temperature Comensation

TriLIN Linearizer

- Without temperature compensation
- With Linearized and Scalable Flow and Temperature outputs

TriLIN Flow Computer

- With Temperature Compensation
- Uses the PT100 output(*) of the temperature sensor measuring the process fluid temperature to compensate for the effects of temperature and viscosity on the performance of turbine flowmeters.

* Pickoffs with integrated PT100 sensors are available from TrigasDM. The option of using an external PT100 is also offered.

TriLIN Flow Computer with multi-function display

- In addition to the Temperature Compensation features (see above), scaled Flow (volumetric or mass in user selectable units), Temperature, Viscosity and user defined Fluid ID are displayed.

Detailed product descriptions for the individual versions can be found in their corresponding technical data sheets.

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About us

Production of Flowmeters
A Flow Specialist with 35 years experience, TrigasDM offers quality measuring instruments, flow meter electronics and flow calibrators for both liquids and gases.

Made in Germany
The development and manufacture of our products takes place exclusively in our facilities in Neufahrn, 20 km north of Munich.

Contact

+49 8165 9999 300

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