

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.

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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:

- 4 analog inputs (0-10 VDC or 4-20 mA)
- 1 digital input (0-5 VDC)
- 1 pressure input (0-10 VDC)

Linearization:

- Flowmeter K-factor – UVC correction
- Compensation of Temperature, Viscosity, Density and pressure

Performance:

- Linearized Frequency: 0.01% of reading
- Linearized Analog: 0.003% of reading
- Temperature Sensor: $\pm 0.25^\circ\text{C}$
- Analog (Flow & Temperature): 16 Bit (0,15 mV)
- Response Time: 20 ms (period based)
- $< 2,5\text{ mV}$ zero offset

Outputs:

- Pulse: 0-4800 Hz
- Analog: 0-10 VDC or 4-20 mA (optional)
- Temperature: 0-10 VDC or 4-20 mA (optional)

Operating Temperature:

- -40°C to $+85^\circ\text{C}$

Enclosure:

- IP 52

Wall mount available

Communication:

- RS232 to PC
- Programming interface

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Standard Versions

TriLIN

- Linearization without temperature compensation



TriLIN+T

- Linearization + temperature compensation
The device compensates by use of an attached temperature sensor, measuring medium temperature and the resulting viscosity changes. Pre-programmed temperature and viscosity data allows the TriLIN+T to calculate and output accurate values.



TriLIN+T Display

- Linearization + temperature compensation
+ 4 digit display



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

Detaillierte Produktbeschreibungen entnehmen Sie bitte unseren technischen Datenblättern zu den jeweiligen Geräteausführungen.

Trigas  **DM**

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About us


Production of Flowmeters

A Flow Specialist with 30 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.

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