

# LYSIS

## LSA series of Linearizers / Flow Computers

The Lysis LSA Series Plug-and-Measure Linearizer/Flow Computer corrects the frequency output of Turbine flowmeters for the effects of temperature and viscosity. It also linearizes and scales the Flow and Temperature outputs in a variety of formats including CAN.

New advanced Temperature compensation algorithm. With the proprietary UVCpro Compensation method activated, unprecedented levels of accuracy are possible over the full extended flowmeter range (up to 130:1) of TrigasDM Turbine flowmeters.



The Lysis Flow Transmitters combine in a single instrument Linearization, UCV or UVCpro Temperature compensation, signal conditioning, used-selectable outputs and advanced communication 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

- Open software architecture with user-defined password protection. ALL scaling and programming options are accessible by the end user.
- Never a charge for programming. Reprogramming is included in the price of the flowmeter calibration for the life of the instrument.
- Compatible with every flowmeter that is equipped with a Lysis SMART Pickoff (Plug-and-Measure)
- Upon connection with ANY TrigasDM SMART Pickoff equipped flowmeter, Lysis gains access to the preprogrammed calibration and fluid properties data and all signals from the SMART Pickoff.
- User-friendly FlowHow+ programming software with run-live mode for easy programming and troubleshooting of all available functions and features.
- Available in a variety of housings and connector configurations
- Mass and Volumetric flow capability
- Linearized Flow and Temperature outputs
- UVC and UVCpro correction capability for the effects of Temperature and Viscosity
- Sophisticated proprietary interpolation algorithms for Flow, Temperature, Density and Viscosity data

● ● ● Made in Germany

## Specifications

### Power Supply:

- 6–36 VDC

### Inputs - Smart Pickoff:

- Flow: Modulated Carrier (RF)
- Temperature: Semiconductor sensor

### Outputs:

Flow:

- Frequency, linearized, scaled TTL
- Analog, 0-10V, linearized and scaled

Temperature:

- Analog, 0-10V, linearized and scaled

Analog Resolution: 16 bit

### Linearization:

- Flowmeter K-factor using UVC correction  $\pm 0.1\%$  Of Reading
- Compensation for Temperature, Viscosity and Density

### Temperature:

- Operating:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Storage:  $-55$  to  $+150^{\circ}\text{C}$

### Housing:

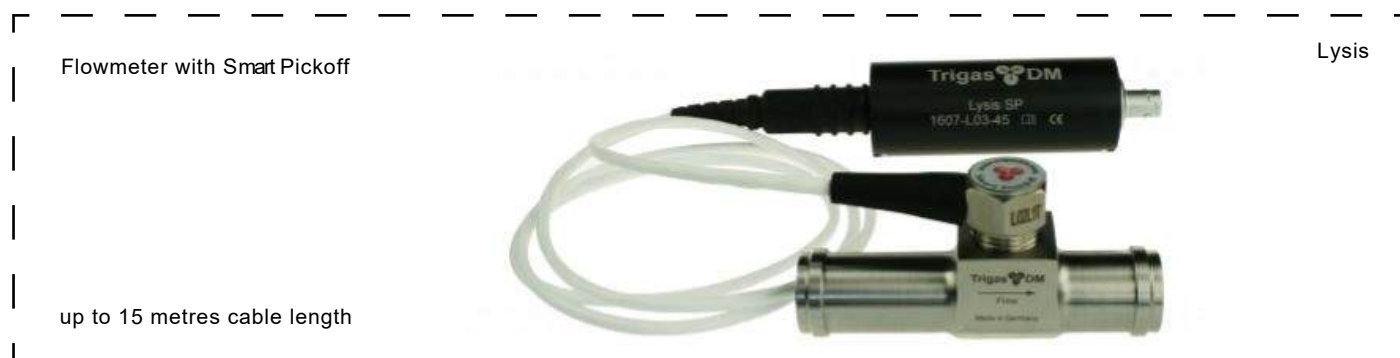
- Round Housing:  
L x  $\varnothing$  = 95 x 30 mm  
including connectors
- Square Housing:  
L x W x H = 122 x 55 x 34 mm,  
depending on configuration

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# SMART-Pickoff & Lysis

The Lysis LSA Series Plug-and-Measure Linearizer/Flow Computer corrects the frequency output of Turbine flowmeters for the effects of temperature and viscosity. It also linearizes and scales the Flow and Temperature outputs in a variety of formats including CAN.

All data are stored in the SMART Pickoff which is part of the turbine flowmeter. Up to five selectable Flowmeter Calibration Curves and up to five Fluid Properties Tables can be stored in memory in the SMART Pickoff, making it a versatile flow measuring instrument.



Upon connection with ANY TrigasDM Smart-Pickoff equipped flowmeter, Lysis gains access to the following information and signals from the Smart-Pickoff via a 5-pin shielded, high temperature resistant cable:

- Flowmeter Frequency
- Temperature
- Flow Meter identification (Model and Serial number)
- Calibration and Fluid Properties data

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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# 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

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