Trigas DM
Durchflussmesser-Manufaktur
TrigasDM GmbH
Erdinger Str. 2b
85375 Neufahrn
Germany
www.trigasdm.com
Tel.: +49-8165-9999 300
Fax: +49-8165-9999 329
info@trigasdm.com

DATASHEET

L015xO1T

Lysis SMART RF Pickup

with x meter cable and temperature sensor

PRODUCT DESCRIPTION

With Lysis Linearizer it is possible to optimize the accuracy of the flow measurement process by compensating for any non-linearity of the flowmeter itself as well as the effects of changes in Fluid Temperature and Viscosity.

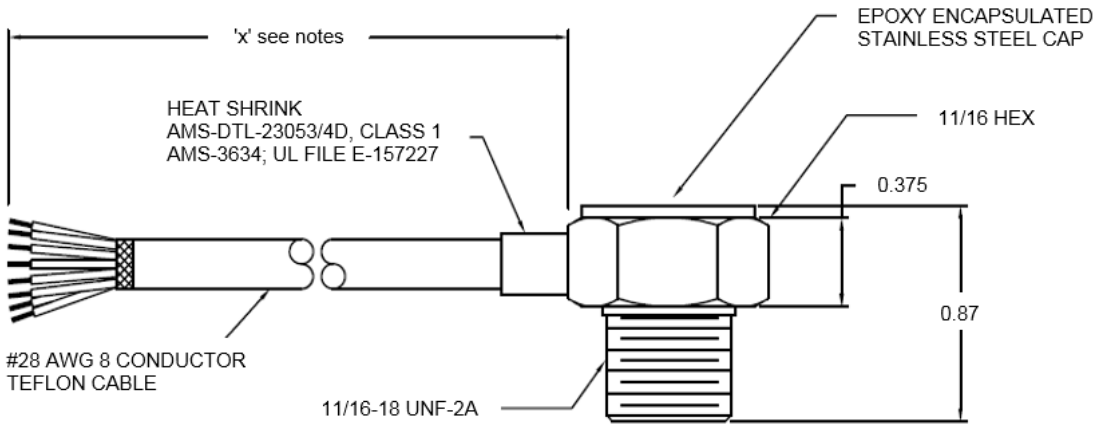
The Lysis SMART-Pickoff simplifies this process further. As part of a DM flowmeter, it is programmed with the flowmeter performance curve and the process fluid properties. TrigasDM RF pickups are based on the modulated carrier principle for Near Zero Speed performance with no Magnetic Drag, resulting in extended flow range performance. RF sensors produce modulation of a carrier signal whose frequency is identical to the frequency of the excitation due to a passing target (turbine flowmeter rotor). An internal temperature probe is positioned near the face of the sensor.

The movement of the rotor in the turbine is received by the pickoff. Every movement of the blade is an incoming pulse. This is forwarded as a frequency to the Lysis linearizer. The electronic converts the measured physical quantity (rotor movement) into a linearized analog electrical and frequency signal for computing and/or further processing.

When a Lysis linearizer is connected to the SMART-Pickoff, it automatically recognizes and retrieves the stored data and uses them to perform the required flow corrections. This way, a Lysis Linearizer can be seamlessly used with ANY DM flowmeter equipped with a SMART-Pickoff. Truly, a Plug-and-Measure solution which is also TEDS capable.

Both Lysis and SMART-Pickoff have been miniaturized to fit in the smallest of places and operate over a range of -40°C to +125°C.

COLOR	WIRE DISCRIPTION
WHT	RF OUTPUT
BLK	RF OUTPUT
RED	VCC
BLU	CLK
YEL	SO
ORG	SI
GRN	CSFE
BRN	CSTEMP



PRODUCT SPECIFICATIONS

DC-Coil Resistance: 10.5Ω ± 10%

Inductance: 1mH ± 10%

I.R Leakage: 100MΩ @ 1000VDC

Operating Freq.: ≥ 0.5 to ≤ 6000 Hz

Temperature Sensor: Temperature chipset

Temperature Range: -40°C to +125°C

Cable Length 'x': x Meter

Connectors: ODU 8-pin (Pict. Showing Flying Leeds)

Construction: 300 Series Stainless Steel Solid Epoxy Encapsulation

Sensor Face: Epoxy sealed face / Open front construction