

GPL 100 Thermal Mass Flow Meter



GPL 100 Insertion Style

GPL Odorizers offers safe and effective, smart gas odorization that is planet-friendly and backed by an industry leading service platform and warranty.

The GPL 100 is a thermal mass flow meter that offers premium performance. The meter is **recommended for use in the GPL 750 Odorization System** as it has excellent low flow sensitivity and high rangeability. Since the proprietary GPL odorization is proportionate to gas flow, the integration of the GPL 100 assures accurate, optimal and repeatable odorization with low flow and intermittent flow systems.

The meter is approved for use in Class I, Division 2 hazardous areas and is CE approved. It is available with 24 VDC input power. The power dissipation is among the lowest in the industry at less than 2.5 watts. The GPL 100 offers both a 4-20 mA signal and pulse output of total flow. Also, Modbus RTU with RS-485

communication is optional providing both daisy chain communication and the capacity to reconfigure the operating considerations of the device.

The thermal mass flow meter can function with either the 1/2" insertion probe in 1" and larger pipe, or the in-line flow body with 1/4" to 4" pipe. Various connections are available for inserting the probe into the pipe. The meter is calibrated by an NIST traceable calibration facility preconfigured with the specified process and installation parameters for the application. The GPL 100 has a dual compartment housing with separate wiring sections featuring large, easy-to-access terminals for simple field installation.

Specifications

Performance

- ◆ Accuracy: +/- 1% of reading plus 0.5% of full scale
- ◆ Repeatability: 0.2% of reading
- ◆ Low end sensitivity: 5 SFPM (1 SCFM in
- ◆ 6" pipe)
- ◆ Response time: 1 second constant
- ◆ Turndown: 100:1
- ◆ Resolution: 1000:1

Electronics

- ◆ Power: 24 +/-10% VDC
- ◆ Output : 4-20 mA
- ◆ Pulse: Solid-state
- ◆ Isolated: Externally powered 4-20 mA and pulse
- ◆ Modbus: RS 485 RTU optional 1
- ◆ Approvals: Class I, Division 2, NEMA 4, CE
- ◆ Ambient temperature: -40 to 150° F (-40 to 65° C)

Sensor

- ◆ Type: Insertion probe (1/2" diameter)
- ◆ Flow Body with flow conditioning (1/4" to 4")
- ◆ Materials: 316 stainless steel and Hastelloy C
- ◆ Process temperature range: -40 to 200°F (-40 to 93° C)
- ◆ Process pressure: Max 500 psig



Master Distributor

Linc Energy Systems is the master distributor for GPL Odorizers. The company specializes in natural gas odorization, measurement and control and damage prevention. More information at www.LincEnergySystems.com.



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