

LincEnergy Systems

making a measurable difference

Linc Energy Systems
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Lakewood, CO 80228

Learn more at [LincEnergySystems.com/
linc-energy-blog/entry/selecting-gas-flow-
meter-technology](http://LincEnergySystems.com/linc-energy-blog/entry/selecting-gas-flow-meter-technology)

Tom's Gas Meter Selection Guide



Need a gas meter? Gather the following...

1 What is its purpose?

What do you need the meter for? *Custody transfer*, submetering, monitoring, industrial process gas? Do you need *mass flow* or *volumetric flow*? What is your budget?

Custody Transfer Meters

- Differential pressure meters
- Turbine meters
- Positive displacement meters
- Coriolis flow meters
- Ultrasonic meters
- Vortex flow meters

Natural gas flow meter options [on reverse](#).

2 What is the gas?

Single gas or mixture? What is the operating flow range, accuracy requirement, process temperature, and pressure?

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3 Where is the meter being installed?

What are the environmental conditions? Is there sufficient straight run? Regulations? Noise or vibration?

4 What do you need from the meter?

Do you need a totalizer? A local display? What are your calibration expectations? Do you need to be able to upgrade the meter to advanced electronics? What are your maintenance requirements?

Mass Flow Meters

- Coriolis flow meters
- Thermal mass flow meters

5 CALL (303) 697-6701

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| Accurate gas measurement begins with being informed. | | Natural Gas Characteristics | | | | Flow Meter Considerations | | | | | |
|--|---|-----------------------------|---------|-----------|-------|---------------------------|-------------------|--------------|------------|-----------------------|-------------|
| Flow Meter Technologies | | dry /clean | wet gas | Corrosive | dirty | pressure loss | relative accuracy | rangeability | Temp | upstream straight run | relative \$ |
| Differential Pressure (Orifice Plates, Venturi) |  | 😊 | 😊 | 😞 | 😞 | med-high | fair | 3:1 | -20-+120 F | 5-30 D | \$-\$\$ |
| Turbine |  | 😊 | 😞 | 😞 | 😞 | high | high | 10:1 | -20-+120 F | 5-10 D | \$\$ |
| Positive Displacement (Diaphragm, Rotary) |  | 😊 | 😞 | 😞 | 😞 | high | high | 10:1-80:1 | -20-+120 F | none | \$ |
| Rotameter |  | 😊 | 😊 | 😞 | 😞 | med | fair | 10:1 | -20-+120 F | 10 D | \$ |
| Coriolis |  | 😊 | 😞 | 😞 | 😞 | low | high | 20:1 | -20-+120 F | 0- 20 D | \$\$\$ |
| Ultrasonic |  | 😊 | 😞 | 😞 | 😞 | low | very high | 50:1 | -20-+120 F | 10 D | \$\$\$ |
| Vortex |  | 😊 | 😞 | 😞 | 😞 | med | med | 10:1-38:1 | -20-+120 F | 10-20 D | \$\$\$ |
| Thermal Mass Flow Meter |  | 😊 | 😞 | 😞 | 😞 | low | med | 100:1-1000:1 | -20-+450 F | 25 D-40 D | \$\$ |

Traditional Gas Technology

New Gas Technology

| | |
|---|---|
| 😊 | Good choice! |
| 😞 | Proceed with caution; contact the manufacturer to discuss limitations |
| 😞 | Stop! |

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