



## MODEL 9500 FGS FLARE GAS FLOW MONITORING SYSTEM

### PROVIDING FEATURES THAT OFFER VALUE ADDED BENEFITS

- ◇ Monitoring Total Gas Flow to Flare Stacks
- ◇ Monitor Gas Feed Lines to Flare Header
- ◇ High Flow Range Turndown Ratios to 100:1+ (resolution up to 1000:1)
- ◇ Provides accurate monitoring of flare gas flow for compliance reporting to 40 CFR Part 98 emissions reporting (QUAD O & Subpart W)
- ◇ Absolutely No Moving Parts
- ◇ Teflon Coated Probe for H<sub>2</sub>S content
- ◇ Accuracy to  $\pm 0.2\%$  of Full Scale
- ◇ Standalone Mass Flow Meter or Complete Solar System with Wireless Data Retrieval
- ◇ No Temperature or Pressure Compensation
- ◇ No Pressure drops using in-line sensor
- ◇ Optional Packing Gland for ease of extraction
- ◇ Designed & Manufactured in the USA



**simplifying**

**FLARE GAS FLOW MEASUREMENT**

**thermal mass flow meters**

# Reliable Thermal Mass Flow Technology

## Flare Gas Flow Measurement Solution Meets GHG Reporting Requirements

As state, national, and international government regulations for monitoring flare gas emissions become stricter, so do the demands for measuring and reporting them. Environmental authorities around the world are requiring process plant operators to continuously monitor and record flare emissions and associated flow rates and gas composition. As a result of these new regulations, Thermal Instrument Company has designed a complete flow monitoring package for the upstream and midstream oil & gas exploration companies. This flow system provides companies with the proper daily and totalized mass flow rate information of what is flowing out of the flare.

The Thermal Instrument Company Model 9500FGS is comprised of the essential instrumentation needed to measure the mass flow rate of the gaseous mixture to the flare. Since these well sites are remote in some cases, we can offer the complete system as a solar powered design with NEMA 4X enclosure, and configurable totalization module for any type of recorded format. Actual flow rate and totalized accumulated flow can be viewed and downloaded locally or remotely. And our flow meter is true “plug & play” in less than 5 minutes with durability and long lasting performance for many years.

### KEY TECHNICAL SPECIFICATIONS

- ◇ Direct mass, volumetric, or velocity flow measurement of liquids or gases
- ◇ 85 to 245 VAC, 50/60 Hz or 18 to 36 VDC (1 Amp max.)
- ◇ 4-20 mA Output, RS485 digital, totalizer pulse for total flow
- ◇ 1 to 100 FPS Flow Range
- ◇ -40 to 350 F temperature range as std.
- ◇ 0 to 25 PSIG std. (0 to 500 PSIG) optional



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