COMPACT, HIGH-ACCURACY DIFFERENTIAL PRESSURE TRANSDUCER

MODEL 136 / 236 / 336

FEATURES:

- Compact design
- Up to ±0.05% FSO accuracy
- 1 PSID thru 500 PSID (0.1 thru 35 BAR D)
- Line pressure up to 1000 PSI (69 BAR)
- All-welded 316L stainless steel wetted parts
- High shock and vibration resistance
- Fast response time

APPLICATIONS:

- Liquefied natural gas (LNG) transport and storage
- Automotive test stands
- Aircraft engine test stands
- Flow measurements
- Filtration
- Tank level
- Leak testing

PRODUCT OVERVIEW:

The Model 136/236/336 from GP:50 is a family of highly accurate, digitally compensated differential pressure transducers. Model 136/236/336 measures differential pressure ranges as low as 20” WCD and line pressures up to 1000 PSID (69 BAR) in a compact size. Customers may also choose from among multiple accuracy, digital output, process and electrical connections. Please consult the factory for details.

FIELD OPTIONS:

- Temperature outputs available
- Accuracy options to ±0.05% FSO
- Digital output options; CANbus, USB, RS-485 & RS-232
- Comprehensive selection of process and electrical connections
**REFERENCE SPECIFICATIONS**

**ELECTRICAL**

- **Supply Voltage:**
  - (Model 136) 5.0 to 15 Vdc
  - (Models 236, 336) 9.0 to 32 Vdc
- **Output Signal:**
  - (Model 136) Varies by range and accuracy: 3 mV/V (Optional 5 to 10 mV/V)
  - (Model 236) 0 to 5 Vdc, 0 to 10 Vdc option
  - (Model 336) 4-20 mA
- **Response Time:** 2 ms typical
- **Connection:** PTIH-10-6P (consult factory for other options)

**MATERIALS OF CONSTRUCTION**

- **Wetted Parts:** 316L stainless steel
- **Housing:** 300 series stainless steel
- **Internal Fill:** Silicone Oil (Fomblin Oil Available)

**STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)**

- ±0.25% FSO (±0.10%, ±0.05% FSO optional)
- Zero/Span Balance: < ±0.5% FSO

**OPTIONAL VARIATIONS**

- Zero & span, shunt calibration, alternate connectors, pressure ports

**MECHANICAL**

- **Process Connection:** 1/4” NPT (F) (Consult factory for other options)
- **Proof Pressure:** 2X FSO
- **Burst Pressure:** 5X FSO
- **Line Pressure:** 1000 PSI (69 BAR)
- **Approximate Weight:** 8 oz (254 gm)
- **Orientation Effect:** ≤ 2 PSI: ± 3.5% FSO, Rotated 90° from Horizontal

**PRESSURE RANGES**

- 1 PSID thru 500 PSID (0.1 thru 35 BAR D)
  - (Other ranges available)

**THERMAL SPECIFICATIONS**

- **Compensated Range:** 0 °F to +185 °F (-18 °C to +77 °C)
  - (Other ranges available)
- **Operating Ambient:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Operating Process:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Storage Ambient:** -50 °F to +260 °F (-46 °C to +127 °C)
- **Effect on Zero/Span:**
  - (Model 136) ±1.0% FSO/100 °F
  - (Models 236/336) Standard: ±0.50% FSO/100 °F
  - Improved: ±0.25% FSO/100 °F

* Standard configurations shown. Please consult factory for other options.*

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All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.

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Tel: +1.716.773.9300  Fax: +1.716.773.5019  Email: sales@gp50.com  Web: www.gp50.com