MODEL 243 / 343

FEATURES:
- Pressure and temperature in a single device
  - Dual 4-20mA, 0 to 5 Vdc or RTD Temperature outputs
- Maximum process temperatures from -65 °F to +250°F
  (-54 °C to +121 °C)
- Probe lengths from 3/4” to 7” (19mm to 178mm)
- Compact 1-inch (25.4 mm) diameter
  Rugged all-welded stainless steel design
- Standard ranges from 0-50 PSI thru 0-10K PSI
  (3.5 thru 690 bar)
- Calibrated Temperature ranges from -40°F to +250°F
  (-40°C to 121°C)

APPLICATIONS:
- Vehicle, engine and transmission oil monitoring
- Oil rig topside controls
- Automotive test stands
- Process skids
- Medical equipment
- Laboratory R&D

PRODUCT OVERVIEW:
The Model 243 / 343 series from GP:50 is an all-stainless steel, dual pressure and temperature transducer with 4-20 mA and 0-5 V output. Its compact design reduces I/O and insertion points where size and weight are considerations. Units are available in a variety of pressure and temperature ranges.

FIELD OPTIONS:
- Alternate probe lengths, process ports and electrical connections
- Optional improved temperature specifications available
- Dual 0-5 Vdc or 4-20 mA outputs
- 0-5 Vdc or 4-20 mA pressure and RTD temperature output options
- ATEX/IEC Intrinsically Safe (AI) and ATEX Zone 2 Non Incendive (AN) approvals available. Note: these options will increase length of housing to 5.83” for dual output unit.
**ELECTRICAL**

- **Supply Voltage:** 9.0 to 36 Vdc
- **Output Signal:**
  - (243) 0 to 5 Vdc
  - (343) 4-20 mA
- **100 or 1000 Ohm Platinum RTD output options for Temperature**
- **Output Current:** 2.0 mA max. for <0.1% FSO attenuation
- **Load Impedance:** 1,350 Ω max. at 36 Vdc and 750 Ω max. Vdc
- **Insulation Resistance:** >100 MΩ at 50 Vdc and +70 °F (+21 °C)
- **Connection:** 6-pin bendix PT1H-10-6P stainless steel options available

**MATERIALS OF CONSTRUCTION**

- **Wetted Parts:** 316L or 17-4PH SST
- **Housing:** 300 series stainless steel

**ACCURACY (NON-LINEARITY @ +70 °F (BP5L))**

- **Temperature:** ±3.0 °F
- **Zero Balance:** ±1% FSO
- **Pressure:** Standard: ±0.5% FSO
  - Improved: Optional ±0.2% FSO or ±0.1% FSO

**MECHANICAL**

- **Process Connection:** 1/4” NPT (M) (other ports available)
- **O-Ring:** Buna-N (Nitrile) is standard. For expanded temp ranges -65 °F to 250 °F Fluorosilicone is standard.
- **Probe Length:** 3/4” thru 7”
- **Proof Pressure:** 2X FSO (optional 5X)
- **Burst Pressure:** 5X FSO
- **Approximate Weight:** 5 ounces
- **Optional ports and probe lengths available**

**PRESSURE RANGES**

- 0-50 thru 0-10K PSI (3.5 thru 690 BAR) gauge, sealed gauge, absolute

**TEMPERATURE RANGES**

- Calibrated ranges from -40 °F to +250 °F (-40 °C to +121 °C)
- (Consult factory for other ranges - Electronics rated to 250 °F)

**THERMAL SPECIFICATIONS**

- **Thermal Response Time:** <2 secs
- **Compensated Pressure:** +30 °F to -185 °F (-1 °C to -120 °C)
- **Operating Ambient:** -40 °F to +185 °F (-40 °C to +85 °C)
- **Operating Process:** -40 °F to +250 °F (-40 °C to +121 °C)
- **Storage:** -65 °F to +250 °F (-55 °C to +121 °C)
- **Effect on zero/span pressure:** ±0.5 % FSO/100 °F

Standard configurations shown. Please consult factory for other options.