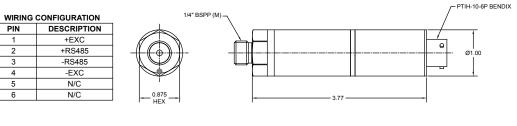


OIL & GAS

MODEL 741 HIGH-ACURACY RS485 / DIGITAL PRESSURE TRANSDUCER



Inches (mm)

Annupuso Dakistin Capa Costa United Capa Costa U

REF DIMENSIONS ONLY. CONSULT FACTORY FOR ACTUAL DIMENSIONS.

PRODUCT OVERVIEW:

GP:50 Model 741 provides RS485 digital data transmission used in serial communication protocols standard for Industrial Control Networks and Data acquisition systems. High static accuracy, thermal performance and lack of EMI makes the 741 ideal for the auto and aircraft manufacturing floor.

- RS485 (TIA 485) serial communication standard
- Supports Modbus RTU and ASCII Protocols
- 4000 ft max data transmission
- EMI resistant

FEATURES:

- High accuracy ±0.05% FSO
- -40 to +180 °F (-40 to +82 °C) compensation
- Compact, lightweight, all stainless steel design

APPLICATIONS:

- Industrial Control Systems
- Data Acquisition Systems
- Programmable Logic Controllers
- Automotive and Jet Engine Test Stands

OPTIONS:

- Modbus RTU or ASCII serial communication protocol
- Adjustable Baud Rate
- System Output Re-Zero and Digital Shunt



GP:50 MODEL 741

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL		
Digital Output: (Output Signal)	RS-485 (TIA-485)	
Excitation Voltage:	10 to 32 Vdc	
Conversion Rate:	4.8 KHz	
Current Draw:	40 mA	
Standard Resolution:	18 Bit	
Standard Messaging:	Pressure	
Protocol:	Modbus ASCII, or TRU	
Baud Rate:	115200	

MATERIALS OF CONSTRUCTION		
Wetted Parts:	316 or 17-4 PH SST	
Housing:	316 Series Stainless Steel	
Internal Fill:	≤2000 PSI Silicone Oil (Fomblin optional)	

ACCURACY (RSS): Hysteresis, Non-Linearity & Repeatability @ +70 °F)		
Standard:	±0.15% FSO	
Improved:	±0.05% FSO	
Zero & Span Balance:	±0.5% FSO	

MECHANICAL		
Process Connection:	1/4" NPT (M) (Options available)	
Electrical Connection:	PTIH-10-6P connector (Options available)	
Proof Pressure:	2X FSO (Optional 5X)	
Burst Pressure:	5X Typ (2X for ranges ≥20K PSI)	
Approximate Weight:	8 oz (0.23 kg)	

PRESSURE RANGES

0 to 1 thru 0 to 15,000 PSI (0.069 thru 1035 BAR) (Some specs may be affected above 8,000 PSI - consult factory) Gauge, Sealed Gauge, Absolute or Vacuum

THERMAL SPECIFICATIONS		
Operating Range:	-40 °F to +180 °F (-40 °C to +82 °C)	
Compensated Range:	0 °F to +180 °F (-18 °C to +82 °C)	
Effect on Zero/Span:	±0.5% FSO/100 °F (±1.0% FSO/100 °F from -40 to +185 °F / (-40 °C to +85 °C)	
Improved Compensated Range:	±0.25% FSO/100 °F (-40 °F to +180 °F (-40 °C to +82 °C))	
Storage Ambient:	-40 °F to 250 °F (-40 °C to +121 °C)	



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.