

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

HONEYWELL PRECISION BAROMETER (HPB)



The Honeywell Precision Barometer (HPB) offers outstanding value to instrument builders that require accurate and stable barometric measurements in real-world conditions. The HPB uses proven silicon sensor technology with microprocessor-based signal compensation, eliminating the need to insulate or temperature-regulate the barometer. The HPB has a pressure range of 500 to 1200 hPa. The HPA, intended for altimeter applications, provides a pressure range of 0 to 17.6 psia.

FEATURES & BENEFITS

HIGH ACCURACY

- ±0.4 hPa max from -40 to 85°C.
- ±0.03% FS max from -40 to 85°C.

PERFORMANCE SPECIFICATION GUARANTEED OVER -40 TO 85°C

- HPB, ±0.4 hPa; HPA, ±0.03% FS Max.

MULTIPLE INTERFACE OPTION

EASY INTERFACE, PLUG-AND-PLAY FOR YOUR SYSTEM REQUIREMENTS

- RS-232 receives commands and sends data to a single serial port of a computer.
- RS-485 up to 89 units can be connected to a two-wire multidrop bus.most dry gas media.

PROVEN HONEYWELL TECHNOLOGY

STABLE AND RELIABLE

- Honeywell has been building the world's highest performance silicon pressure sensors for over thirty years.

POTENTIAL APPLICATIONS

- AWOS Weather Systems
- Remote Meteorological Station
- Ocean Data Buoys
- Environmental Data Logging
- Secondary Air Data
- Altimeters

ISO-9001

ISO-14001

Honeywell

SPECIFICATIONS

PERFORMANCE[1]	
Total Error Band	(from -40 to 85°C)
HPB200	±0.4 hPa maximum
HPA200	±0.03% FS maximum
Temperature	±1°C (at sensing element)
Temperature Range	Operating: -40 to 85°C (-40 to 185°F) Storage: -55 to 90°C (-67 to 194°F) Sample Rate(3): 8.33ms to 51.2 min
Resolution	0.0011% FS[4]
Response Delay	(1000/update rate) +1ms, minimum 17ms
Long Term Stability[6]	HPB: 0.25 hPa max per year HPA: 0.02% FS max per year
MECHANICAL	
Pressure Ranges	HPB: 500 to 1200 hPa (1 hPa = 1 mbar) HPA: 0 to 17.6 psia
Pressure Units[3]	atm, bar, cmwc, ftwc, hPa, inHg, inwc, kg/cm², KPa, mBar, mmHg, MPa, mwc, psi, user, Icom, pfs
Media Compatibility	Suitable for non-condensing, non-corrosive, and non-combustible gases
Weight	5 oz. (142 gm) without fittings
ELECTRICAL	
Output	RS-232, RS-485
Power Requirements	Supply Voltage: 5.5 to 30 VDC
Operating Current	35 mA maximum
Baud Rate[3]	1200, 2400, 4800, 9600, 14400, 19200, 28800
Bus Addressing[3]	Address up to 89 units
ENVIRONMENTAL[2]	
Humidity Sensitivity	Negligible
Acceleration Sensitivity	Negligible
Mechanical Shock	1500g, 0.5ms half sine
Temp Shock	24 1-hour cycles, -40 to 85°C
Vibration	0.5in or 20G's, 20Hz – 2KHz

(1) Accuracy is the sum of worst-case linearity, repeatability, hysteresis, thermal effects, and calibration errors from -40 to 85°C. Calibration is traceable to NIST.

(2) Mechanical Shock tested per MIL-STD-883D, M2002.3, Cond. B. Vibration tested per MILSTD- 883D, M2007.2, Cond. A.

(3) User Configurable.

(4) Best resolution obtained with PFS (percent full scale) pressure units.

(5) Demonstration kit includes unit, power supply/data cable (120V), demonstration software, and user manual.

(6) Beyond max. total error band when continuously powered at 25±10°C, <90%RH and 28 to 32 inHg atmospheric pressure.

ORDERING INFORMATION

PRESSURE CONNECTION

HPB	Barometer Application, 500 to 1200 hPa (1 hPa = 1 mbar)
HPA	Altimeter Application, 0 to 17.6 psia

ACCURACY	BAROMETER	ALTIMETER
200	±0.4 hPa max	±0.03% FS max

PRESSURE CONNECTION	
W	Brass barbed (1/8 inch ID tubing)
X	Brass Swagelok™ (1/8 inch female)
R	Brass barbed, right angle (1/8 inch ID tubing)
F	Filter (blocks debris)

OUTPUTS	
2D	RS-232
5D	RS-485

ELECTRICAL CONFIGURATION AND CONNECTION	
A	6-pin plastic connector

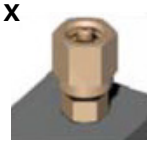
OPTIONS	
B	Mating Connector (See Below)
C	Power Supply/Data Cable

HPB	200	W	2D	A	-B

W



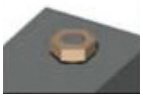
X



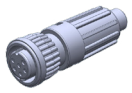
R



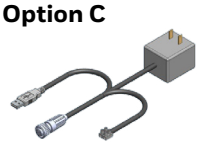
F



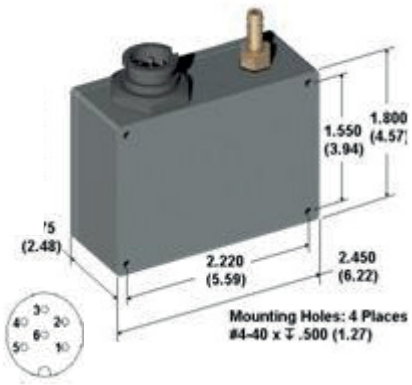
Option B

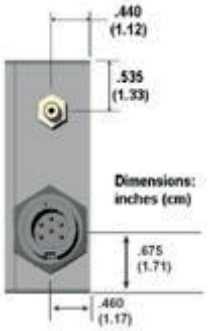


Option C



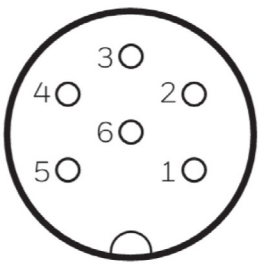
DIMENSIONS





CONNECTOR PINOUTS

PIN	SIGNAL NAME
1	RS-232 (TD)/RS-485(B)
2	RS-232 (TD)/RS-485(A)
3	Case Ground
4	Common Ground (GND)
5	DC Power In (+)
6	N/C



For more information

For more information on Honeywell's Precision Pressure Transducers, contact us at 1-800-601-3099 (International: 1-602-365-3099).

Honeywell Aerospace Technologies

12001 Highway 55
Plymouth, MN 55441
PlymouthSupport@honeywell.com
aerospace.honeywell.com

ADS-14181
N61-2082-000-001 | Rev. C | 08/25
© 2025 Honeywell International Inc.

THE FUTURE IS WHAT WE MAKE IT

Honeywell

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP