

# Digiquartz® Broadband Barometers



Model 6000-16B Intelligent Barometer



Model 745-16B Laboratory Barometric Standard



Model 765-16B Field Barometric Standard

## PERFORMANCE

±0.08 hPa Accuracy  
0.0001% Resolution  
Better than 0.1 hPa Stability

## RANGES

500 hPa to 1100 hPa (Models 745 & 765)  
800 hPa to 1100 hPa (Model 6000-16B)

## FEATURES

Taring  
Low Power  
Data logging (Model 765)  
Remote communication interface  
- RS-232 (All Models)  
- RS-485 (Series 6000-16B)  
- USB (Model 765)  
Free configuration and logging software  
Battery operation (Models 745 & 765)  
Simple front panel (Models 745 & 765)

## QUALITY AND STANDARDS

NIST traceable  
Low maintenance  
3-year stability warranty  
ISO 9001:2000 quality system  
Market-leading 5-year limited warranty

## APPLICATION AREAS

Metrology  
Aerospace  
Meteorology  
Oceanography  
Process Control  
Energy Exploration  
Infrasound Research  
Reference Barometers  
Altimeter Setting Indicators  
Laboratory Instrumentation

Digiquartz® Broadband Intelligent Barometers and Barometric Standards provide the ultimate accuracy in pressure measurements. Typical application accuracy of ±0.08 hPa is achieved under laboratory and field conditions. Digiquartz® Broadband Barometers are used for applications where **accuracy, reliability, long-term stability** and **low total cost of ownership** are critical parameters.

Paroscientific is certified to the ISO 9001:2000 International Quality Standards. Our quality system and commitment to excellence ensure customers of outstanding products and services. We offer a **3-year stability warranty** on all broadband barometers and a market-leading **5-year limited warranty** on all Digiquartz® Transducers with the first two years covered at 100%.



# Digiquartz® Broadband Barometers

## PERFORMANCE

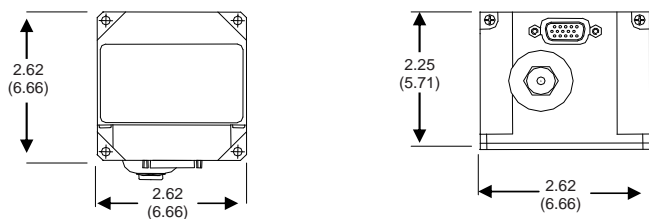
Accuracy	Better than $\pm 0.08$ hPa
Resolution	Better than 0.001 hPa
Stability	Better than 0.1 hPa per year

## CHARACTERISTICS

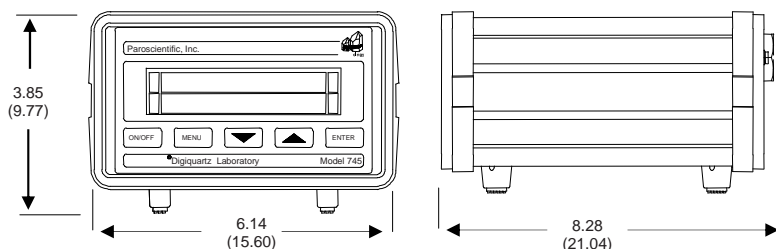
Weight	Model 6000-16B - 15.9 oz (450 g) Max
	Model 745-16B - 4.0 lb (1.8 Kg) Max
	Model 765-16B - 8.5 lb (3.86 Kg) Typical

## ENVIRONMENTAL

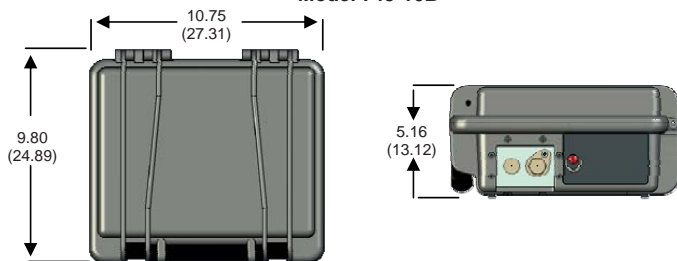
Overpressure	To 1240 hPa (18 psia)
Operating Temp. Range	Model 6000-16B -54 °C to +60 °C (-65 °F to +140 °F)
	Model 745-16B 0 °C to +40 °C (32 °F to +104 °F)
	Model 765-16B -20 °C to +50 °C (-4 °F to +122 °F)
Power Requirements	Model 6000-16B +6 VDC to +16 VDC, 32 mA Max
	Model 745-16B +6 to +25 VDC or AA batteries, 72 mA
	Model 765-16B 100 VAC or 240 VAC or internal battery



Series 6000-16B

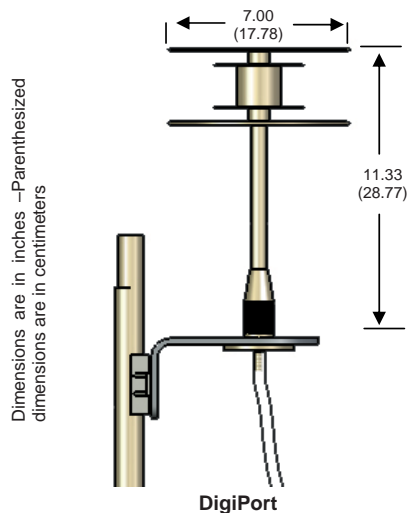


Model 745-16B



Model 765-16B

## HIGH PERFORMANCE PRESSURE PORT



Accurate measurements of barometric pressure require an environmentally rugged pressure port design that minimizes pressure errors under dynamic wind conditions. Wind tunnel and field tests of the high-performance pressure port (DigiPort) used on the Paroscientific MET3A Meteorological System show superior performance over all other ports. Barometric readings with the MET3A pressure port system easily meet the requirements of GPS Meteorology, Weather Stations, Digital Altimeter Setting Indicators, High-Resolution Measurements of Atmospheric Waves, and Aircraft Wake-Turbulence Detection.

The high-performance DigiPort is now optionally available for use with all Digiquartz® Barometric Instruments. It provides barometric accuracy of better than 0.08 hPa in strong winds, all wind directions, pitch or tilt angles up to 25 degrees, rain, and freezing conditions.

## ACCESSORIES

High performance pressure port (DigiPort)  
Model 715 Display

## ORDERING INFORMATION

Digiquartz® Broadband Barometers		
Model Number	Part Number	Remarks
6000-16B	1600-101	Stainless steel buffer tube
	1600-102	Nylon buffer tube
745-16B	1728-010	110 VAC input
	1728-110	220 VAC input
765-16B	1100-010	110/220 VAC input

Product defined by Specification Control Drawing. Specifications subject to change without prior notice.

Manufactured under one or more of the following U.S. Patents: 4,454,770 - 4,455,874 - 4,592,663 - 4,724,351 - 4,751,849 - 4,757,228 - 4,764,244 - 4,831,252 - 4,872,343 - 4,912,990 Other patents pending.  
© Registered Trademark of Paroscientific, Inc. © Copyright April 2008 by Paroscientific, Inc.