

DBX1 BAROGRAPH SPECIFICATIONS

Barograph Pressure sensor	A piezoresistive transducer (state-of-the-art monolithic silicon pressure sensor). On-Chip Signal Conditioned, Temperature Compensated 2.5% Maximum Error over 0 to 85C, and Calibrated. Sensor range: (2.2 to 16.7 Psi), (15 to 115 kPa.) (150 to 1150 mb/hPa.), (4.43 to 33.96 inHg.). Settable application range (406 to 1134 mb/hPa.), (12.00 to 33.50 inHg.).
Precision	Barograph Precision ± 0.25 mb/hPa. and ± 0.007 inHg. of true pressure.
Sensitivity	Barograph Sensitivity 0.100 mb/hPa. and 0.003 inHg.
Resolution	Barograph Display Resolution 0.001 inHg. and 0.01 mb/hPa.
Pressure format	Either inHg (Inches of mercury) or mb (millibars) equivalent to hPa.
Altitude	Barograph operates at altitudes up to 12,000 ft / 3658 meters.
Microcontroller	AVR risc processor running @ 1 mhz. 32K Flash memory. Upgradedable Firmware. Built-in 6 pin "ISP" in-system programming.
Barograph Display	20x4 column green transfective LED backlit LCD display. User adjustable contrast control. Backlight ON/OFF control.
Barograph Display Information	Current Pressure, [1] Day high and low pressure, [5] Day high and low pressure, Tendency, Warning messages and rate of rise and fall. Pressure Change showing: 1, 3, 6, and 12 hour pressure differences.
Display Graphing	[1] Day bargraph and [5] Day bargraph.
Barograph Controls	4 Control buttons with multiple functions, LED backlight control, SET, CHG, DSP (Display control). Contrast control. Sound on/off control. Format control (inHg/mb format). Realtime reading control. Set Threshold Alert and Clear warning message control.
Alert	Audible Barograph alert at 85db with on/off control. Automatic audible alert on large drop detect with warning messages. User settable drop threshold alert. For example, a user could set an audible alert if the pressure falls below 29.60 inHg.
Barograph Power	Includes one A/C power adapter with 9v output and 2.1mm female connector. Includes 4 AA backup batteries and battery holder. Can run up to one month on batteries depending on usage. Can handle up to 15.0v. Power Adapters available for U.K., Europe & Australia.
Case	Extruded black anodized aluminum case.
Barograph Dimensions	5.0" x 3.0" x 1.5" (120mm x 78mm x 43mm)
Barograph Weight	10 oz. (340 grams)
Barograph Manufactured	Manufactured in the USA.