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R. FUESS

DIGITAL BAROMETER

DB278 D

The application range of the DB278 D are the measurements of pressure in meteorological stations, for industry and in laboratories. (for aviation use, see model DB-X series.) Beside the display of the local pressure the QNH value can be indicated by using the front panel-switch.

The display employ a bright 0.56" LED display with a red sunlight readable LED. The intensity of display can be adjusted from dark room applications up to sunlight readable, making it ideal for viewing in bright light applications. The used barometric pressure sensor is designed for measurements that require excellent accuracy, fast dynamic response and long-term stability and reliability. The barometer is operable in temperatures from -20°C to +50°C. But for using the excellent high accuracy the ambient temperature should be between +10 and +30°C.

The Model DB278 D is using an extremely accurate and stable transducer which has a long term stability of less than 0.1 hPa per year. The DB278 D is compared at 16 measuring points with the Standard Mercury Barometer EB-3 and corrected, which is confirmed by a work certificate. By means of this procedure the accuracy is +/-0.15 hPa over the total measuring range.

To use DB278 D for a process controlling, there are options as RS 232 and RS 485 interfaces and analogue outputs 0...10 V and 0/4...20 mA.



Specifications:

Pressure Media	: Non-condensing air or gas
Measuring range	: 600...1100 hPa (on request: extended range 500...1100 hPa)
Resolution	: 0.1 hPa
Accuracy at +10...+30°C	: +/- 0.15 hPa
Response Time	: < 2 s (standard)
Proof Pressure	: 1500 hPa
Burst Pressure	: 2000 hPa
Long Term Stability	: 0.1 hPa / Year
Operating temperature	: -20...+50°C, +10 ... +30°C recommended
Storage temperature	: - 40... + 60°C
Mains appliance	: 100...240 VAC (output 11...28 VDC)
Dimension	: 124 mm x 86 mm x 118 mm (WxHxL)
Weight	: 1.0 kg

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