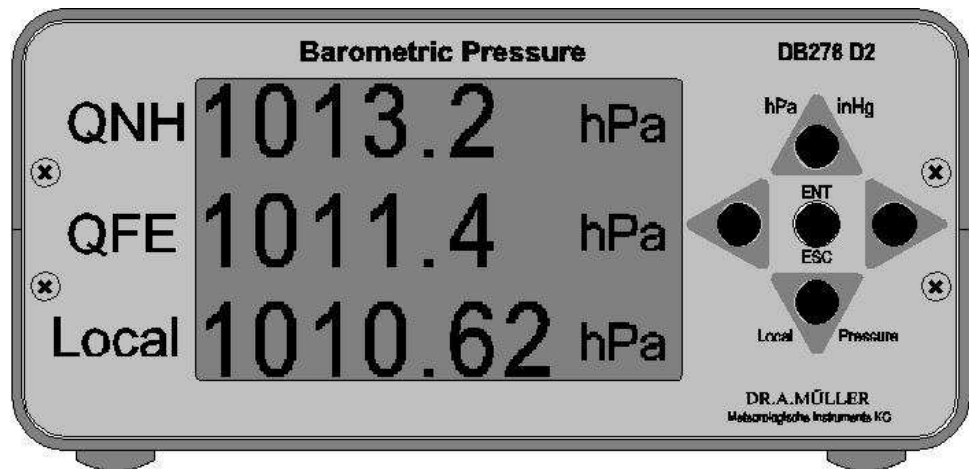


DR. ALFRED MÜLLER
METEOROLOGISCHE INSTRUMENTE KG
R. FUESS

DIGITAL BAROMETER DB278 D2

For a certain and reliable measurement of air pressure the model DB278 D2 uses two independent working pressure transducers with a Long Term Stability of less than 0.1 hPa per year. The high accuracy of less than +/- 0.1 hPa over the whole measuring range (+/-0.2 for at least one year) is achieved by comparing both transducers at 16 points with our Standard Mercury Barometer EB-3. The display shows the mean value of both corrected transducers. The reliability is achieved by the use of two pressure transducers. The DB278 D2 compares the two transducers and if their values differ more than 0.2 hPa the local display will flash and show the values of both transducers alternating. Before delivery the DB278 D2 is compared with our Standard Mercury Barometer EB-3 and will leave the factory only if the deviation is less than 0.05 hPa. This is proved by a Work Certificate belonging to each barometer. The classic field of operation of the DB278 D2 is measurement of air pressure in Met. Offices, on airports and the calibration of altimeters, barometers and barographs. Before the DB278 D2 can show QNH and QFE the altitude of the barometer and the runway has to be entered. For connection to a chamber the DB278 D2 offers a 1/8" barbed fitting for push on tubing. The pressure values can be read out by an RS232 interface.



Specifications:

Numbers of transducers	: 2
Measuring range	: 800...1100 hPa (alternative 600... 1100 hPa)
Resolution	: 0.01 hPa (Local Pressure) 0.1 (QNH and QFE)
Accuracy	: better than +/- 0.1 hPa at 18...28°C (+/- 0.4 hPa at 0 ... 40°C)
Response Time	: < 2 s (standard), adjustable from 0.3...25.0 s
Proof Pressure	: 1500 hPa
Burst Pressure	: 2000 hPa
Long Term Stability	: 0.1 hPa / Year
Operating temperature	: 0 ... + 50°C
Storage temperature	: - 40... + 60°C
Pressure Media	: Non-condensing air or gas.
Pressure connection	: 1/8" barbed fitting
Interface	: RS 232 (9 pin Sub D Connector male)
Supply voltage	: 11...28 VDC
by mains appliance	: 90...265 VAC (output 24 VDC)
Buffering battery	: 4 x 1,2 V Ni/MH accumulators LR20
Dimension	: 185 mm x 90 mm x 118 mm (W x H x L)
Weight	: 1.5 kg

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