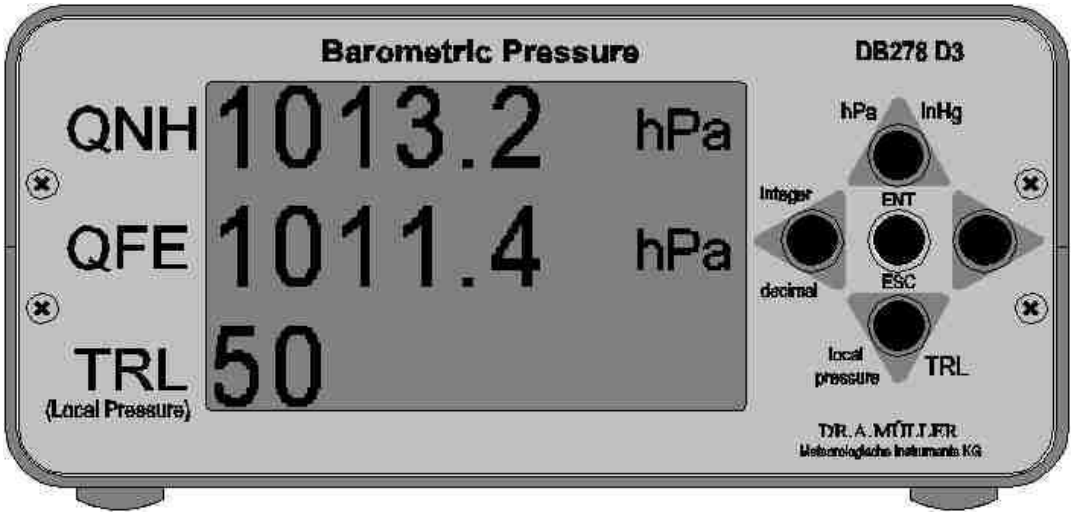
AIRPORT BAROMETER DB278 D3

For a certain and reliable measurement of air pressure on airports the model DB278 D3 uses three independent working pressure transducers with a Long Term Stability of less then 0.1 hPa per year. The high accuracy of less then +/- 0.1 hPa over the whole measuring range (+/- 0.2 hPa for at least one year) is achieved by comparing the three transducers at 16 points with our Standard Mercury Barometer EB-3. The display shows the mean value of the three corrected transducers. The reliability is achieved by the use of three pressure transducers. The DB278 D3 compares the three transducers with each other and if the value of on transducer differ more then 0.2 hPa the display will show the term 2 TRANSD and the displayed values are calculated from the two remaining transducers. If all three transducers differ more than 0.2 hPa from each other the display will flash and shows the value of the three transducers in turn. Before delivery the DB278 D3 is compared with our Standard Mercury Barometer EB-3 and will leave the factory only if the deviation is less then 0.05 hPa. This is proved by a Work Certificate belonging to each barometer. The DB278 D3 is designed especially for the use on airports and as a reference for calibration of altimeters, barometers and barographs. Before the DB278 D3 can show QNH and QFE the altitude of the barometer and the runway has to be entered. Before the DB278 D3 can show the Transition Level TRL the Transition Altitude TA and the vertical separation has to be entered. For connection to a chamber the DB278 D3 offers an 1/8" barbed fitting for push on tubing. The pressure values can be read out by an RS232 interface.



Specifications:

Numbers of transducers	:	3
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℃ (+/- 0.4 hPa at 0 ... 40℃)
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℃
Storage temperature	:	- 40... + 60℃
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)
Dimension	:	185 mm x 90 mm x 118 mm (W x H x L)
Weight	:	1.5 kg

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