Calibrations

Parameter	Calibration of	Measuring range	Accuracy
Dew point resp. pressure dew point °Ctd	Dew point sensors	Dew point range: -80°C...20°C 0 bar...6 bar	± 0.2 °C
Relative humidity U / % RH	Humidity transducers and humidity meas. instruments	12 % RH 33 % RH 76 % RH	1 %
	Humidity transducers and humidity meas. instruments, thermo-hygrographs, dew point level meters and so on	Temperature range: 5°C ≤ T ≤ 80°C Humidity range: 2 % RH ≤ U ≤ 95 % RH	± 0.1 °K up to 30 % RH: ± 0,5 % RH up to 60 % RH: ± 1,9 % RH up to 95 % RH: ± 1,5 % RH
Volume flow in m^3/h, m^3/min, l/min	Volume flow meters	0 m^3/h...4000 m^3/h 1 bar...6 bar	± 1 %
Flow velocity	Flow velocity meters in the velocity channel	0 m/s...80 m/s	± 3 % m.v. however, not smaller than 0.05 m/s
Temperature	Contact thermometers	-25°C...1100°C	-25°C...125°C ± 0.2 °K -50°C...600°C ± 0.3 °K -300°C...1100°C ± 3.0 °K
	Surface probes and surface measuring systems	30°C...600°C	± 1,5 °K or 1.5 % m.v. the respective bigger value is valid
	Pyrometers	0°C...600°C	Measuring inaccuracy of the reference: 0°C...200°C: ± 1.0 °K otherwise: ± 1.5 °K
Absolute pressure pabs **Negative and positive over pressure pe** **Positive over pressure pe**	Pressure sensors according to DIN EN 837 DKD R 6-1 EA 10/17	0.8 bar...201 bar 1 bar...2001 bar -1.0 bar...200 bar 2 bar...2000 bar	Depending on meas. range up to $1 * 10^{-4} *$ pabs, however not smaller than 0.9 mbar