Technical Data

testo 6445	
Sensor	Thermal silicon chip sensor, mass flow principle
Media	Compressed air, air, nitrogen, non-corrosive gases (caution: not approved for use in explosive areas)
Display	Optional, part no. 0699 6445/3, two-line
Measuring range	0 to 80 Nm/s, min. 1 Nm/s (0699 6445 / 1) or 0 to 150 Nm/s, min. 2 Nm/s (0699 6445 / 2)
Accuracy	±3 % of reading, ±0.4 % of final value
Pressure dependency	Measuring principle independent of pressure (mass flow measurement) For flows < 10 Nm/s: pressure influence 0.3 % of reading per bar
Temperature dependency	Compensated at 25 °C, deviating temperatures: 0.1% of reading/Kelvin
Response time	t90 approx. 5 seconds
Voltage supply	12 to 24 V DC ±10 %, power consumption < 100 mA (starting current briefly 500 mA)
Electrical connection	Precision plug connection for distributor box, 0699 6445/4 or for cable 0699 6445/5
Analog output	4 to 20 mA = 0 to 80 or 0 to 150 Nm/s, 4-wire, max. load = 500 ohm, max. length 250 m (use shielded cable!)
Pulse output	Floating contact, 12 to 24 V DC switching voltage from external meter, corresponding to S0 meter signal (DIN 43864). Pulse value depends on internal diameter set
Digital output	RS 232, max. cable length 15 metres, easily accessible connected to distributor box for 0699 6445/4
Process conditions	0 to +50 °C (ideally +20 to +30 °C), PN 16, (max. 16 bar), rel. humidity < 90% RH (no lasting effect after re-drying), air quality (ISO 8573: classes 1/4/1)
Ambient temperature	-10 to +60 °C
Storage temperature	-40 to +80 °C. Avoid build-up of ice
Standard reference	Standard flow rate (e.g. Nm/s) and standard volumetric flow rate (e.g. Nm3/h) are based on DIN ISO 2533, 15 °C, 1013.25 mbar, 0% RH
Weight	Compressed air meter: 840 g, display: 140 g, 10 metre cable: 640 g, clamp ring screw connection: 100 g
Housing	Aluminium, painted. IP 65, however only approved for use in indoor installations
EMC	EN 50082-1