

	Invasive Pressure Transducer	Rev.-Nr.: 0	Datum: 27.10.2006
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Specifications for the pressure transducer measured with dome (includes the deviations resulting from the membrane-to-membrane coupling)

measuring principle	piezo resistive transducer measuring against air pressure
measuring range	-400 < p < 1000 mm Hg
measuring range for the specifications below	- 20 < p < 350 mm Hg
maximum overpressure	3,000 mm Hg
sensitivity	s = 5 μ V / V / mm Hg, Tolerances acc. DIN EN ISO 60601-2-34
input impedance	typ. 2,200 Ω \pm 20%
output impedance	220 Ω \pm 20%
operating voltage	3 V _{eff} < U _b < 7 V _{eff}
operating voltage frequency	only DC allowed
Offset	p ₀ < +/- 50 mmHg
non-linearity, hysteresis, reproducibility	< 1.66% FS or \pm 1 mm Hg (whatever is smaller)
thermal sensitivity shift	ds/dt < 0.5 mmHg/°C
thermal zero shift	ds/dp ₀ < 0.7 mm Hg / °C
operating temperature range	15 °C < T _A < 40 °C
storage temperature range	5 °C < T _L < 50 °C
high voltage resistance	5 kV between saline in dome and transducer leads

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