

Model cells for pressure

Cells for earth pressure EESK and pore water pressure EPK



These electric earth pressure transducers and pore water pressure transducers for model tests have been specially developed for the measurement of earth, hydrodynamic and aerodynamic pressures over a wide frequency band up to 50 bars. As standard model, an electric pressure sensor with connection cable is water tightly.

Technical data	EESK	EPK
Dimensions:	75x13 mm	70x17 mm
Weight:	350 g	400 g
Filter type:	Membrane	Sintered metal
Material:	V4A 1.4571	V4A 1.4571
Filter area:	23.8 cm ²	12.6 cm ²
Protection type:	IP 68	IP 68
Power supply:	1 mA opt. 10 V DC	1 mA opt. 10 V DC
Output signal:	0-250 mV	0-250 mV
Overload security:	50 % f.s.	50 % f.s.
Linearity incl. hysteresis:	< 0.5 % v. E.	< 0.5 % v. E.
Thermal zero drift:	0.025 mV/ K	0.025 mV/ K
Operating temperature range:	+5 up to +80 °C	+5 up to +80 °C
Storage temperature range:	-40 up to +100 °C	-40 up to +100 °C
Temperature error 0...50 °C		
- Zero:	< 0.025 mV/°C	< 0.025 mV/°C
- Sensitivity:	< 0.02 %/°C	< 0.02 %/°C
Available measuring range		
absolute pressure transducer:	1/2/5/10/20 o. 50 bar	0.5/1/2/5/10/20 o. 50 bar