C F



Copyright by Pepperl+Fuchs, Printed in Germany

Hydrostatic Pressure Sensor HR-027

Technical data			
Measuring ranges	Independently of the version and the electrical output, the pressure sensors have to be ordered for different levels with different piezoresistive load cells.		
HR-027 1 HR-027 2 HR-027 3 HR-027 4 HR-027 5 HR-	Measuring ranges 0250 mbar 0600 mbar 01600 mbar 04 bar 010 bar	max. allowed over-pressure 2 bar 6 bar 10 bar 16 bar 30 bar	min. measuring ranges 050 mbar 0120 mbar 00.6 bar 01.6 bar 04 bar
Accuracy Linearity Temperature	typical $\pm 0.15\%$ max. $\pm 0.3\%$ from the full scale < 0.3% from the full scale / 10 K		
Supply	with DC 12 30 V from a supply, e.g. PLC resp. by a suitable signal conditioner (PLM - version)		
Electrical output	2-wire 4 20 mA (load influence < 0.1% full scale reading) or PLM - current impulses		
Environmental conditions Temperature	-25 °C +70 °C (248 K 343 K)		
Process conditions Medium temperature with heat insulation tube HR-910900	-25 °C +85 °C (248 K 358 K) -25 °C +110 °C (248 K 383 K)		
Housing material Terminal box	РВТ		
Process connection Thread Membrane Membrane seal Cable	G1A, stainless steel 316 Ti / 320 S 18 Stainless steel 316 / 316 S 16 Viton PTFE (stainless steel tube 304 / 304 S 15)		
Protection class acc. to DIN 40 050	IP 54		
Accessories HR-910900	Heat insulation tube		
Compensation of the measuring range	the hydrostatic pressure sensor has to be compensated after mounting		
 A measuring system consists out of: a hydrostatic pressure sensor HR-0271 a with direct output 4 20 mA in 2-wire-technique, e.g. for PLC connection, display DA4-B8L or transmitter repeater units KF a - ST 3 a hydrostatic pressure sensor HR-0272 with signal conditioner KFU8-PWC 			

Subject to reasonable modifications due to technical advances. Pepperl+Fuchs Group · Tel.: Germany (621) 776-0 · USA (330) 4253555 · Singapore 7799091 · Internet http://www.pepperl-fuchs.com