



RC1001 Differential Pressure Sensor Specification Data Sheet

Why Choose Us

- High-end quality from Rocksensor Switzerland, stable and reliable.
- The localization team provides the first time response service, ensuring customers have no worries.

Advantages

- The core sensor unit uses the world's leading high-precision silicon technology up to platinum level accuracy $\pm 0.05\%$.
- Patented double overload protection diaphragm design, single overload pressure up to 40MPa.
- It is available to select the packaging static pressure sensor and temperature pressure sensor.
- Excellent static pressure performance, error control $\pm 0.1\%$.
- Stainless steel 316 silicon oil filling and welding sealing structure.

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RKS
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High Accuracy Differential Pressure Sensor RC1001

10	Span		
	A	-3~3kPa	
	B	-6~6kPa	
	T	-10~10kPa	
	C	-40~40kPa	
	D	-250~250kPa	
	P	-800~800kPa	
	F	-3~3MPa	
	G	-6~10MPa	
	I	0~40MPa	
20	Static Pressure Sensor		
	0	None	
	1	40MPa	
	2	10MPa	
	3	250kPa	
30	Working Pressure		
	0	0,2Mpa	
	7	7MPa	Only Support Span A
	1	16MPa	Not Support Span A
	2	25MPa	Not Support Span A
	3	40MPa	Not Support Span A
40	Diaphragm		
	S	SS316L	
	H	Hastelloy C	
	G	SS316L Gold Plated	
	F	SS316L FEP Plated	
	T	Tantalum	
50	Filling Fluid		
	S	Silicon Oil	
	F	Fluorine Oil	
60	Housing Connector		
	0	None	
	1	M56*1.5M	
	2	M45*1.5M Heightened	
	3	American Threaded	
	5	M34*1.5M	
	6	NPT1/2M	

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Technical Specifications (in 5VDC, 25 °C Ambient Temperature Working Conditions)

Full Range	3kPa	6kPa	10kPa	40kPa	250kPa	800kPa	3MPa	10MPa	40MPa
Working Pressure	0.2MPa/16mpA		16MPa/40MPa						

Item	Specifications	Item	Specifications
Power Supply	Constant voltage/constant current	Pressure Lag	<±0.025%F.S.
Working Temperature	-40~+85°C	Longterm Shift	<±0.05%F.S./year
Medium Temperature	-50~100°C	Non-linear Error	<±0.1%F.S. (Typical Value)
Voltage Output	60~140mV	Static Pressure Influence	<±0.1%/MPa
Zero Temp. Influence	±0.05%F.S./°C	Diaphragm Material	SS316L, Hastelloy C, SS316L Gold Plated, SS316L FEP Plated, Tantalum
Full Range Temp. Influence	-0.2±0.03%F.S./°C		
Temp. Lag	<±0.05%F.S.	Housing Connector	M56*1.5/M45*1.5/Customized

