

Pressure Sensor Serial DS 100



Features

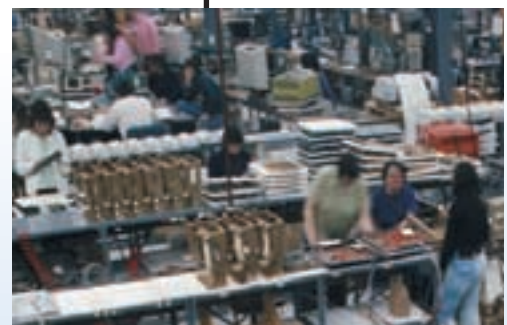
- ☐ Output Signal 0.5 – 4.5 V
- ☐ Fully Compensated
- ☐ Absolute, Differential and Gage Pressure
- ☐ DIL socket for printed circuit board assembly
- ☐ Small Size

Applications

- ☐ Barometric
- ☐ Medical Instrumentation
- ☐ Factory Automation
- ☐ Control Engineering
- ☐ Air Flow Management
- ☐ HVAC

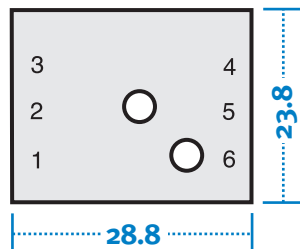
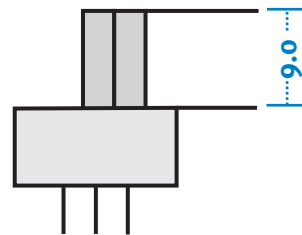
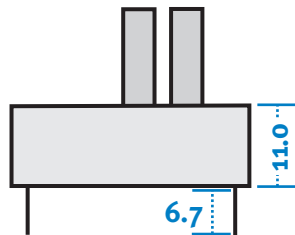
Description

The OEM pressure sensor DS 100 has an integrated amplifier and is designed for very accurate measuring. The zero can additionally be adjusted with an external resistor (resistance). The MWS pressure sensor DS 100 is available for a pressure range from 50 mbar to 7 bar in absolute, differential and gage value.



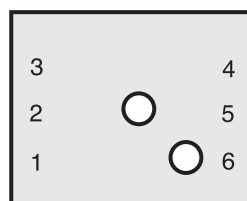
Pressure Sensor Serial DS 100

Dimensions (in mm):

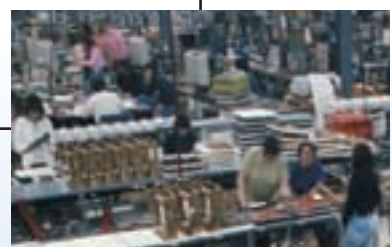


Connections:

- 1: supply +
- 2: supply -
- 3: output signal
- 4: optional external offset adjustment
- 5: reference voltage output
- 6: supply -



top-view



Pressure Sensor Serial DS 100

Specifications:

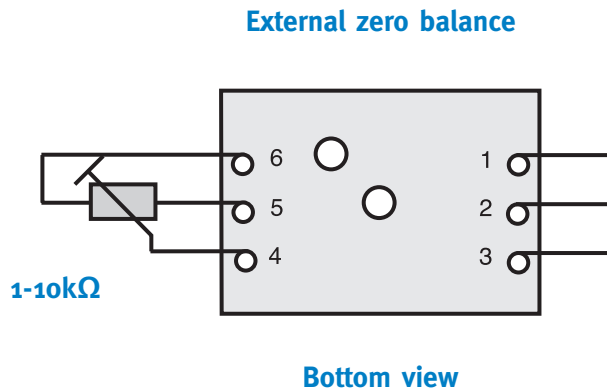
Supply voltage	9 – 30 Vdc
Compensated temperature range	-20 to 85 °C
Operation temperature	-40 to 85 °C
Storage temperature	-40 to 125 °C

Parameter	Min.	Typ	Max.	Unit
Supply voltage	9	12	30	Vdc
Current Supply		3	3.5	mA
Zero output typ A and G	0.45	0.5	0.55	Volt
Zero output typ D	2.45	2.5	2.55	Volt
Full scale output	4.45	4.5	4.55	Volt
Rate of time 10-90 % FS		1		ms
Output current			1	mA
Linearity	0	0.05	0.1	% FS
Hysteresis	0	0.01	0.1	% FS
Span failure -20 to 85°C	0	0.3	0.5	% FS
Zero failure - 20 to 85°C	0	0.1	0.5	% FS
Longterm stability		0.1		% FS
Repeatability	0	0.1	0.3	% FS
Load resistance	10			KOhm
Dependence of UB (10-24 V)		0.01	0.05	% FS
Reference voltage output		7.1		Volt
Overpressure ⁽¹⁾	3x			FS
Medium compatibility	Dry and non-aggressive gas			

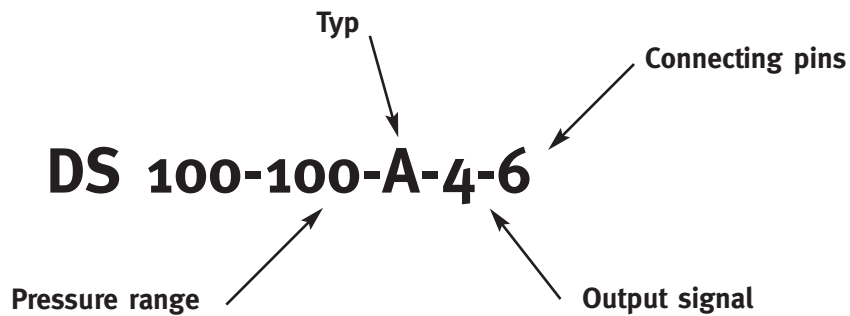
⁽¹⁾ 3 x Pressure range or max. 13.5 bar



Pressure Sensor Serial DS 100



Ordering Information



Pressure range

0050 = 50 mbar
 0100 = 100 mbar
 0250 = 250 mbar
 0500 = 500 mbar
 1000 = 1 bar
 2000 = 2 bar
 5000 = 5 bar
 7000 = 7 bar

Typ

A = Absolute
 G = Gage
 D = Differential

Output signal

4 = 0.5 to 4.5 V
 5 = 1.0 to 6.0 V