

DT98C785

PRESSURE SENSORS • CONNECTION G1/8" OUTER THREAD

Pressure sensors are suitable for measuring different media with high accuracy. They are available with switching output and/or analog output. Using PC software, the measured values can be recorded depending on the device type. These sensors can be used in all areas of e.g. pneumatic and hydraulic applications.



MECHANICAL DATA

Ambient temperature (MAX)	80 °C
Ambient temperature (MIN)	-20 °C
Bursting pressure	42 bar
Degree of protection (IP)	IP67
Explosion-proof	No
For gaseous media	Yes
For liquid media	Yes
Front-flush membrane	Yes
Housing design	Cylinder plain
Housing material	Chromium-nickel steel
Max. operating pressure	20000 hPa
Max. operating pressure	20 bar
Medium temperature (MAX)	100 °C
Medium temperature (MIN)	-30 °C
Nominal pressure	10 bar
Pressure transmitter	Yes
Sensing element material	Chromium-nickel steel
Sensor diameter	27 mm
Sensor length	53 mm
Thread length	20.5 mm
Thread pitch	1.81 mm
Type of pressure connection	G1/2 inch B
With hand operation	No

ELECTRICAL DATA

Electronic version	Yes
End value measuring range, pressure	1000000 Pa
Initial value of measuring range, pressure	0 Pa
Measurement method	Relative
Measuring range pressure (MAX)	10 bar
Number of pins	2

ELECTRICAL DATA

Operating voltage (MAX)	30 V
Operating voltage (MIN)	10 V
Rated operating voltage Ue at DC (MAX)	30 V
Rated operating voltage Ue at DC (MIN)	10 V
Relative linearity deviation	0.5 %
Relative measurement accuracy	0.3 %
Relative repeat accuracy	0.2 %
Response time	10 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable as 2-point control	No
Suitable as limiter	No
Suitable as monitor	No
Temperature drift	0.2 %
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Plug-in connection M12
Voltage type	DC
With manual on/off switch	No

OTHER DATA

For hydraulic applications	Yes
For pneumatic applications	Yes
Measuring display	Relative

DIMENSIONAL DRAWING

INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.