ETS 7000 Series Standard, For Special Configurations order quantity is 250 pieces



Description

The ETS 7000 is an electronic temperature transmitter which, due to its compact design, is particularly suited to measuring temperature in hydraulic applications in the industrial and mobile sectors. Based on a silicon semiconductor device and corresponding evaluation electronics, the temperature sensor is designed to measure temperatures in the range -13° to 212°F.

The sensor has various analog output signals as standard, e.g. 4 to 20 mA or 0 to 10 V to enable integration into modern controls through the male M12x1 connection.

The pressure resistance up to 8700 psi and excellent EMC characteristics make the ETS 7000 ideal for use in harsh conditions.

Special Features

- Ideal for OEM applications
- Very compact design •
- Excellent EMC characteristics •
- Long-term stability
- Standard protection class IP 67

Approvals



CE mark is a mandatory conformity mark on many products placed on the single market in the European Economic Area



Technical Details

Sensor Specifications			
Measuring principle	Silicon semiconductor element		
Measuring range	-13° to 212°F (-25° to 100°C)		
Pressure resistance - psi	8700		
Pressure overload - psi	13000		
Mechanical connection	G1/4 DIN 2852		
Torque rating	15 lb-ft (20 Nm)		
Parts in contact with media	Stainless steel, FPM seal		
Output data			
Output signal	4 to 20 mA, 2 wire, R_{Lmax} = (UB - 8V) / 20 mA $[k\Omega]$ 0 to 10 V, 3 wire, R_{Lmin} = 2 $k\Omega$		
Accuracy	≤ ±1.5%FS typ.		
Rise time T90 / T50	≤ 8 s / ≤ 4 s		
Operating conditions			
Ambient temperature range	-13° to 176°F (-25° to 80°C)		
Storage temperature range	-40° to 212°F (-40° to 100°C)		
Fluid temperature range	-13° to 212°F (-25° to 100°C)		
CE mark	EN 61000-6-1 / 2 / 3 / 4		
Vibration resistance to	≤ 20 g		
Safety type to DIN 40050	IP 67 (w/ ZBE 06 molded cable or flying lead)		
Other data			
Supply voltage 2 conductor	8 to 32 V DC		
Supply voltage 3 conductor	12 to 32 V DC		
Residual ripple of supply voltage	≤ 5%		
Current consumption 3 conductor	approx. 25 mA		
Weight	approx. 50 g		

Model Code

Output Signal

4

6

Α В

Mechanical Connection

Modification Number 000 = standard

= G1/4 A male **Electrical Connection**

= 2 conductor, 4 to 20mA

= 3 conductor, 0 to 10 VDC

ETS 7 2 X 6 - A - 000

Pin Connections

M12x1,	4	р	ole

Pin	7246-A	7246-B
1	Signal +	+U _B
2	nc	nc
3	Signal -	0 V
4	nc	Signal



= M12x1 plug, 4 pole (connector not included)

Circuit Diagram





Dimensions

