ETS 4000 Series

Temperature Transducer



Description

The ETS 4000 is a robust electronic temperature transmitter which is particularly well suited to measuring temperature in hydraulic applications in industry.

The temperature sensor, based on a PT 100 and corresponding evaluation electronics, is capable of measuring temperatures in the range -13° to 212°F.

The sensor has analog output signals of 4 to 20 mA and 0 to 10 V available as standard to enable integration into modern controls.

The pressure resistance up to 9000 psi and excellent EMC characteristics make the ETS 4000 ideal for use in harsh conditions.

Special Features

- · Ideal for industrial applications
- Robust design
- Excellent EMC characteristics
- Good long-term stability
- Standard protection class IP 65

Approvals



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

Applications













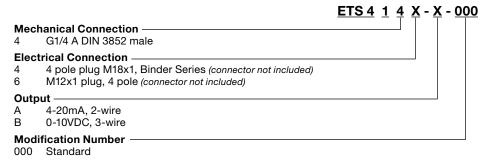


Technical Details

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Sensor Specifications	
Measuring range	-13° to 212°F (-25° to 100°C)
Rated pressure -psi (bar)	9000 (600)
Overload pressure - psi (bar)	13,000 (900)
Mechanical connection	G1/4A DIN 3852 male
Tightening torque	15 lb-ft (20 Nm)
Parts in contact with media	Stainless steel, FPM seal
Accuracy	≤ ±1.8°F (1°C) max
Weight	Approximately 200 g
Output signal	4 to 20 mA, 2 wire, R $_{\rm Lmax}$ = (UB - 10V) / 20 mA [k Ω] 0 to 10 V, 3 wire, R $_{\rm Lmin}$ = 2 k Ω
Reaction Time T90 / T50	9s/3s
Environmental Condition	
Ambient temperature range	-22° to 158°F (-30° to 70°C)
Storage temperature range	-40° to 212°F (-40° to 100°C)
Media temperature range	-22° to 212°F (-30° to 100°C)
CE mark	EN 61000-6-1 / 2 / 3 / 4
Vibration resistance to DIN EN 60068-2-6 at 10 to 500 Hz	≤ 20g
Environmental protection	IP 65
Electrical Specifications	
Supply voltage, 2-wire	10 to 30 VDC
Supply voltage, 3-wire	12 to 30 VDC
Residual ripple suppy voltage	≤ 5%
Current consumption	approximately 25 mA
Reverse polarity protection of the supply voltage, excess voltage, override and short circuit protection	Standard

Temperature Transducers HYDAD

Model Code



Pin Connections

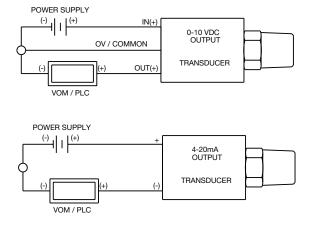
Binder 714 M18

Pin	4144-A	4144-B
1	nc	+U _B
2	Signal +	Signal
3	Signal -	0V
4	nc	nc

M12x1

Pin	4146-A	4146-B
1	Signal +	+U _B
2	nc	nc
3	Signal -	0V
4	nc	Signal

Circuit Diagram



Dimensions

