



HYDAC Technology Corporation

2260 City Line Road,

Bethlehem, PA 18017

TOLL FREE: [877-GO-HYDAC \(464-9322\)](tel:877-GO-HYDAC)

Website: www.hydac-na.com

Part Number 903381, ETS 4000 Temperature Transducer

The ETS 4100 is a robust electronic temperature transmitter which is particularly suited to measuring temperature in hydraulic applications in industry.

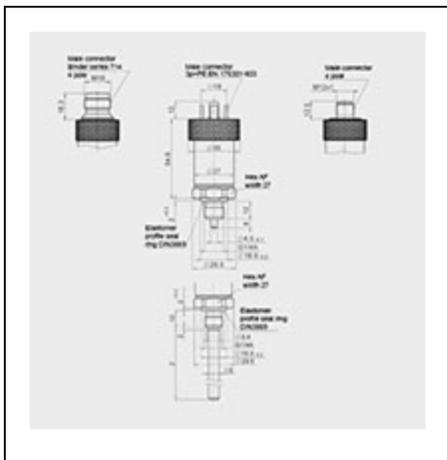
List Price -

QUOTE

The temperature sensor, based on a PT 1000 and corresponding evaluation electronics, is capable of measuring temperatures in the range -13 °F to +212 °F.

The sensor has analog output signals of 4 .. 20 mA and 0 ..10 V available as standard for integration into modern control systems. The pressure resistance up to 8700 psi and excellent EMC

[+ more](#)



[Specifications](#) | [Input Data](#) | [Output Data](#) | [Environmental Conditions](#) | [Pin Connections](#) | [Special Features](#) | [Accessories](#) | [Note](#)

Specifications

Type	Electronic Temperature Transmitter
Model Code Description	ETS 4144-A-006-000
Electrical Connection	Male, 4 pole Binder series 714 M18 (Connector not supplied)
Direct Current (DC) Supply Voltage	8 to 32 V
Residual Ripple of Supply Voltage	≤ 5 %
Weight	200 g
Number of Conductor	2
Sensor Length	0.24 in 6 mm
Division	17
BUn	EA

Input Data

Input Measuring Principle	PT 1000
Input Measuring Range [Max] at -25 to 100 °C	-25 to 100 °C -13 to 212 °F
Input Measuring Range [Min] at -25 to 100 °C	-25 °C -13 °F
Input Probe Length	6 mm
Input Probe Diameter	4.5 mm
Input Pressure Resistance	8700 psi

Input Mechanical Connection Size	G1/4 A, male
Input Mechanical Connection Type	G1/4 A DIN 3852 (Male)
Input Torque Value	15 lb·ft 20 N·m
Input Mechanical Connection Material	Stainless Steel
Input Seal	Fluoroelastomer (FKM)

Output Data

Output Signal Current	4 to 20 mA
Output Permitted Load Resistance	$R_{Lmax.} = (UB - 8 \text{ V}) / 20 \text{ mA [kW]}$
Output Accuracy at Room Temperature Full Scale (FS) Type	$\leq \pm 0.4 \%$
Maximum Full Scale (FS) Output Accuracy at Room Temperature	$\leq \pm 0.8 \%$
Output Temperature Drift at Environment (Full Scale (FS)/ϵF)	$\leq \pm 0.006$
Rise Time to DIN EN 60751	$t_{50}: \sim 4 \text{ s}$

Environmental Conditions

Operating Temperature [Min]	-13 °F
Operating Temperature [Max]	185 °F
Storage Temperature Range	-40 to 212 °F

Fluid Temperature Range	-13 to 257 °F
Industry Standards/Certifications	CE Mark EN 61000-6-1 / 2 / 3 / 4
Vibration Resistance to DIN EN 60068-2-6 at 10 to 500 Hertz (Hz)	≤ 25 g
Protection Class to IEC 60529	IP 65 (for male EN175301-803 (DIN 43650) and Binder 714 M18)

Pin Connections

Pin Connection 1	No Connection
Pin Connection 2	Signal+
Pin Connection 3	Signal-
Pin Connection 4	No Connection

Special Features

- Accuracy $\leq \pm 0.8$ % FS
- Ideal for industrial applications
- Robust design
- Excellent EMC characteristics
- Excellent long term stability
- Standard protection class
- IP 65 / IP 67

Accessories

Appropriate accessories, such as electrical connectors can be found in the Accessories brochure.

Note

Reverse polarity protection of the supply voltage, excess voltage, override and short circuit protection are provided.

FS (Full Scale) = relative to complete measuring range.

Subject to technical modifications.