HYDAC INTERNATIONAL

Electronic Temperature Transmitter with HSI Sensor Recognition

ETS 4548-H

Description:

The electronic temeprature transmitter ETS 4548-H with HSI sensor recognition has been specially developed for use in conjunction with HYDAC measuring instruments HMG 500, HMG 510, HMG 3000 and CMU 1000. For data transmission, the ETS 4548-H has an HSI interface (HYDAC Sensor Interface). The HSI sensors are automatically recognized via the HSI interface by the above-mentioned HYDAC measuring instruments and all the necessary basic settings are taken from each sensor.

Like all temperature transmitters in the ETS 4000 series, the ETS 4548-H features a robust design and excellent EMC characteristics. Based on a silicon semiconductor device and corresponding evaluation electronics, the temperature sensor is designed to measure temperatures in the range -25 to +100 °C.

Special features:

- Automatic recognition by, and voltage supply from, HYDAC measuring instruments HMG 500, HMG 510, HMG 3000 or CMU 1000
- Automatic transfer of measuring range, measured value and measurement unit
- Robust design
- Pressure resistant to 600 bar
- Excellent EMC characteristics
- Standard protection class IP 67

Technical specifications:

Input data	
Measuring principle	Silicon semiconductor device
Measuring ranges	-25 .. +100 °C
Pressure resistance	600 bar
Overload pressure	1000 bar
Mechanical connection	G1/4 A DIN 3852
Torque value	20 Nm
Parts in contact with medium	Mech. conn.: Stainless steel Seal: FPM
Output data	
Output signal	**HSI** (**H**YDAC **S**ensor **I**nterface) Automatic sensor recognition
Accuracy	≤ ± 1.5 % FS typ.
Rise time to DIN EN 60751	t_{50}: 4 s t_{90}: 6 s
Ambient conditions	
Operating temperature range	-25 .. +100 °C
Storage temperature range	-40 .. +100 °C
Fluid temperature range	-40 .. +120 °C
CE mark	EN 61000-6-1 / 2 / 3 / 4
Vibration resistance to DIN EN 60068-2-6 at 10 .. 500 Hz	≤ 25 g
Protection class to DIN 40050	IP 67 (when an IP 67 connector is used)
Other data	
Voltage supply	via HYDAC measuring instruments HMG 500, HMG 510, HMG 3000 or CMU 1000
Weight	approx. 200 g

Note: Reverse polarity protection of the supply voltage, excess voltage, override short circuit protection are provided.
FS (**F**ull **S**cale) = relative to the complete measuring range

Model code:

ETS 4 5 4 8 – H – 000

Mechanical connection
4 = G1/4 A DIN 3852 (male)

Electrical connection
8 = M12x1, 5-pole, male
(connector not supplied)

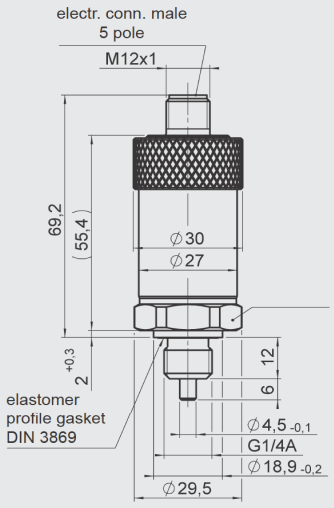
Signal
H = HSI (automatic sensor recognition)

Modification number
000 = Standard

Note:
On instruments with a different modification number, please read the label or the technical amendment details supplied with the instrument.

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

Dimensions:



Note:

The information in this brochure relates to the operating conditions and applications described.
For applications and operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.