



Temperature Transmitter ETS 4100-H

Integrated temperature probe

Accuracy 0.4 %

With HSI sensor recognition

Description:

The electronic temperature transmitter ETS 4100-H with HSI sensor recognition has been specially developed for use in conjunction with HYDAC measuring instruments HMG 5X0, HMG 2500, HMG 4000 and CMU 1000.

For data transmission, the ETS 4100-H has an HSI interface (HYDAC Sensor Interface).

The HSI sensors are automatically recognised via the HSI interface by the above-mentioned HYDAC measuring instruments and all necessary basic device settings are taken from each sensor.

Like all temperature transmitters of the ETS 4000 series, the ETS 4100-H features a robust design and excellent EMC properties. Based on corresponding evaluation electronics, the temperature sensor is designed to measure temperatures in the range -25 °C .. +100 °C.

Technical data:

Input data	
Measuring range	-25 .. +100 °C
Probe length	6 mm
Probe diameter	4.5 mm
Pressure resistance	600 bar
Overload pressure	900 bar
Mechanical connection	G¼ A ISO 1179-2
Tightening torque, recommended	20 Nm
Parts in contact with fluid ¹⁾	Mech. connection: Stainless steel Seal: FKM
Output data	
Output signal	HSI (HYDAC Sensor Interface) Automatic sensor recognition
Accuracy (at room temperature)	≤ ± 0.4 % FS typ. ≤ ± 0.8 % FS max.
Temperature drift (environment)	≤ ± 0.01 % FS / °C
Response time acc. to DIN EN 60751	t ₅₀ : ~ 4 s t ₉₀ : ~ 8 s
Environmental conditions	
Operating temperature range ²⁾	-40 .. +85 °C / -25 .. +85 °C
Storage temperature range	-40 .. +100 °C
Fluid temperature range ²⁾	-40 .. +125 °C / -25 .. +125 °C
CE mark	EN 61000-6-1 / 2 / 3 / 4
Vibration resistance acc. to DIN EN 60068-2-6 at 10 .. 500 Hz	≤ 20 g
Shock resistance acc. to DIN EN 60068-2-27	≤ 20 g
Protection class acc. to DIN EN 60529 ³⁾	IP 67
Other data	
Voltage supply	Via HYDAC measuring instruments HMG 5X0, HMG 2500, HMG 4000 or CMU 1000
Weight	~ 150 g

Note: Reverse polarity protection of the supply voltage, overvoltage, overcurrent and short circuit protection are provided.

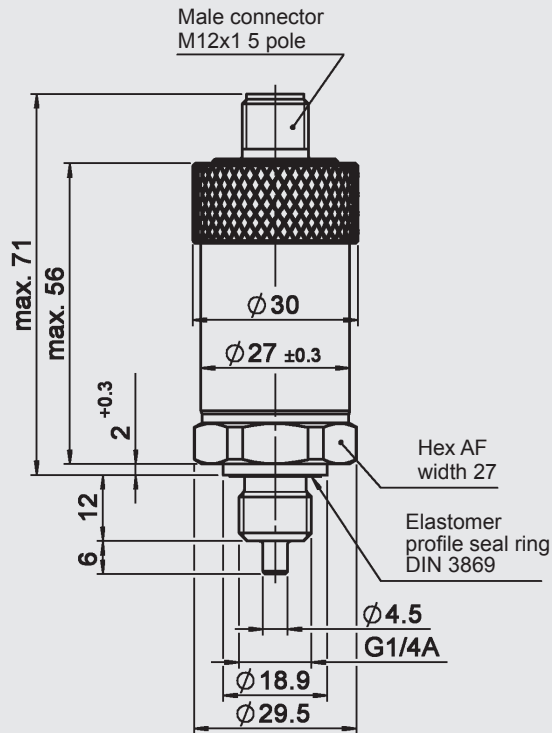
FS (Full Scale) = relative to complete measuring range

¹⁾ Other seal materials on request

²⁾ -25 °C with FKM seal, -40 °C on request

³⁾ With mounted mating connector in corresponding protection class

Dimensions:



Note:

The information in this brochure relates to the operating conditions and applications described.

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

Model code:

ETS 4 1 4 8 - H - 006 - 000

Mechanical connection

4 = G1/4 A ISO 1179-2

Electrical connection

8 = male M12x1, 5 pole
(mating connector not supplied)

Output signal

H = HSI (automatic sensor recognition)

Probe length

006 = 6 mm

Modification number

000 = standard

Accessories:

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

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