



Temperature Transmitter ETS 4100-HC (for HMG 4000)

Integrated temperature probe

Accuracy 0.4 %



With HCSI sensor recognition

Description:

To extend the number of sensors on the HMG 4000, the special CAN-based HCSI sensors were developed.

The HCSI sensors, easily identified by their red type label, are automatically recognised along with all their characteristics by the HMG 4000.

Up to 28 HCSI sensors can be connected to the HMG 4000 via the Y-distributor (available as an accessory) to set up an HMG-internal bus system. The data are transmitted using CAN-based bus protocol.

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

Due to their compact dimensions, these instruments can be used in a wide field of applications in the mobile and industrial sectors.

Technical data:

Input data

Measuring range	-25 .. +100 °C
Probe length	6 mm
Probe diameter	4.5 mm
Pressure resistance	600 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	HCSI (HYDAC CAN 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 instrument HMG 4000
Weight	~ 150 g

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

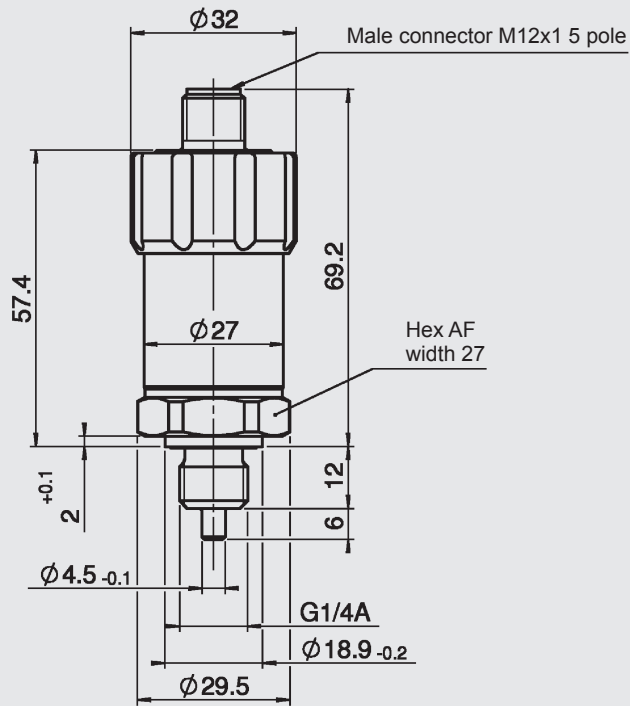
FS (Full Scale) = relative to complete measuring range

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 - HC - 006 - 000

Mechanical connection

4 = G1/4 A ISO 1179-2

Electrical connection

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

Output signal

HC = HCSI (HYDAC CAN Sensor Interface)

Probe length

006 = 6 mm

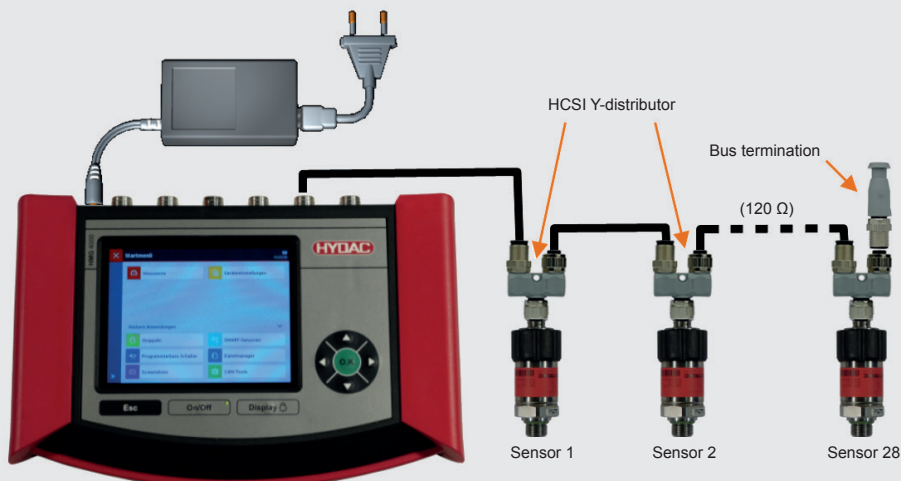
Modification number

000 = Standard

Accessories:

HCSI Y-distributor Part no.: 6178196

HCSI bus termination (120 Ω) Part no.: 6178198



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