GYDAD INTERNATIONAL



Description:

The ETS 7200 is an electronic temperature transmitter which, because of its compact design, is particularly suited to measuring temperature in hydraulic applications in the industrial and mobile sectors. Based on a silicon semiconductor device and corresponding evaluation electronics, the temperature sensor is designed to measure temperatures in the range -25 ... +100 °C.

Various analogue output signals, e.g. 4 .. 20 mA or 0 .. 10 V, are available on the standard version for integration into modern controls. These can be output to the periphery via an M12x1 connector.

The pressure resistance up to 600 bar and excellent EMC characteristics make the ETS 7000 ideal for use in harsh conditions.

Temperature Transmitter ETS 7200

Integrated temperature probe Acc

Accuracy 1 %

Technical data:

| Input data | 25 + 400 °C |
|---|--|
| Measuring range | -25 +100 °C |
| Probe length | <u>10 mm</u> |
| Probe diameter | 6.7 mm |
| Pressure resistance | 600 bar |
| Mechanical connection | G1/4 A ISO 1179-2 |
| Tightening torque, recommended | 20 Nm |
| Parts in contact with fluid | Mech. connection: Stainless steel Seal: FKM |
| Output data | |
| Output signal, permitted load resistance | 4 20 mA, 2-conductor R _{Lmax} = (U _B - 8 V) / 20 mA [kΩ] 0 10 V, 3-conductor |
| | $R_{Lmin.} = 2 k\Omega$ |
| Accuracy (at room temperature) | ≤ ± 1.0 % FS typ. |
| | ≤ ± 2.0 % FS max. |
| Temperature drift (environment) | ≤ ± 0.02 % FS / °C |
| Response time acc. to DIN EN 60751 | t50: 4 s t90: 8 s |
| Environmental conditions | |
| Operating temperature range | -25 +80 °C |
| Storage temperature range | -40 +100 °C |
| Fluid temperature range 1) | -40 +100 °C / -25 +100 °C |
| (E mark | EN 61000-6-1 / 2 / 3 / 4 |
| s mark ²⁾ | Certificate no. E318391 |
| Vibration resistance acc. to DIN EN 60068-2-6 at 10 500 Hz | ≤ 20 g |
| Shock resistance acc. to DIN EN 60068-2-27 | 100 g / 6 ms |
| Protection class acc. to DIN EN 60529 3) | IP 67 |
| Other data | |
| Supply voltage | 8 30 V DC 2-conductor 12 30 V DC 3-conductor |
| when applied acc. to UL specifications | - limited energy - acc. to 9.3 UL 61010; Class 2; UL 1310/1585; LPS UL 60950 |
| Residual ripple supply voltage | ≤ 5 % |
| Current consumption | ≤ 25 mA |
| Weight | ~ 50 g |

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

¹⁾ -25 °C with FKM seal, -40 °C on request

²⁾ Environmental conditions acc. to 1.4.2 UL 61010-1; C22.2 No. 61010-1

³⁾ With mounted mating connector in corresponding protection class

3

Dimensions:

3

Male

connector 4 pole

> Hex AF width 19

Elastomer profile seal ring DIN3869 Ø18.5

M12x1

T I T

Ø21-0.05

37.5 52.6

+0.3

2

12

Pin connections:

M12x1

| •4 | 3• |
|----|----|
| | 2 |

| Pin | ETS 7246-A | ETS 7246-B | |
|-----|------------|-----------------|--|
| 1 | Signal + | +U _B | |
| 2 | n.c. | n.c. | |
| 3 | Signal - | 0 V | |
| 4 | n.c. | Signal | |

Model code: ETS 7 2 4 6 - X - 010 - 000 Mechanical connection = G1/4 A ISO 1179-2 4 Electrical connection 6 = male M12x1, 4 pole (mating connector not supplied) Signal = 4 .. 20 mA, 2-conductor А В = 0 .. 10 V, 3-conductor Probe length 010 = 10 mm

Modification number 000 = standard

Accessories:

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

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.

HYDAC ELECTRONIC GMBH

Hauptstr. 27, 66128 Saarbrücken Germany Telephone +49 (0)6897 509-01 Fax +49 (0)6897 509-1726 e-mail: electronic@hydac.com Internet: www.hydac.com