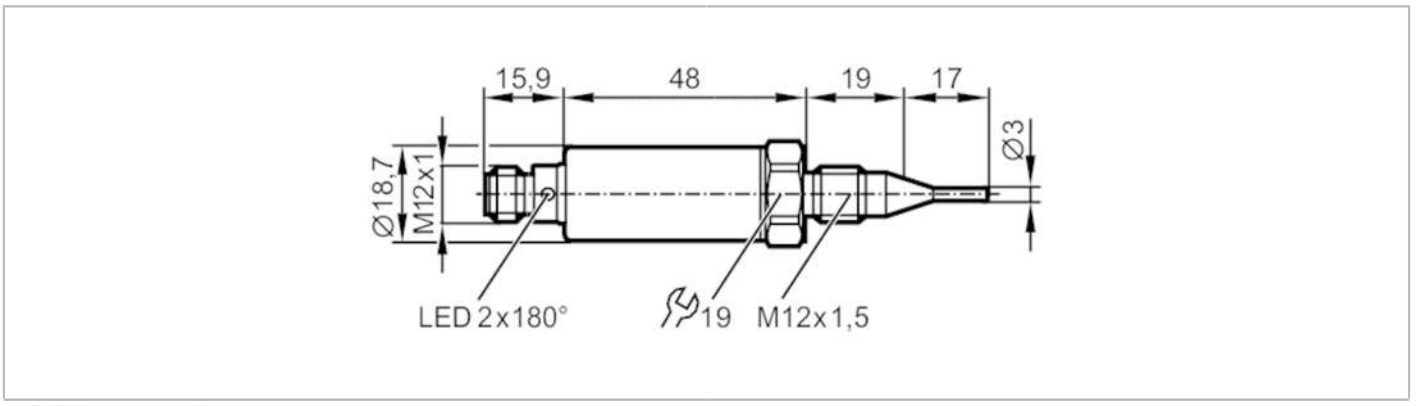
# TA1107

## Temperature transmitter

TA-017C7EM12- A-ZVG/US




EC 1935/2004 EHEDG Certified IO-Link

| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | | Number of analogue outputs: 1 | |
| Measuring range | [°C] | -50...200 | |
| Process connection | | threaded connection M12 x 1,5 external thread sealing cone | |
| Installation length EL | [mm] | 17 | |
| **Application** | | | |
| Measuring element | | 1 x Pt 1000;  (to DIN EN 60751, class A) | |
| Media | | liquids and gases | |
| Pressure rating | | 100 bar | 10 MPa |
| Vacuum resistance | | -1000 mbar | -0.1 MPa |
| **Electrical data** | | | |
| Operating voltage | [V] | 18...32 DC;  ("supply class 2" to cULus) | |
| Current consumption | [mA] | < 50 | |
| Protection class | | III | |
| Reverse polarity protection | | yes | |
| Power-on delay time | [s] | 2 | |
| **Inputs / outputs** | | | |
| Number of inputs and outputs | | Number of analogue outputs: 1 | |
| **Outputs** | | | |
| Total number of outputs | | 1 | |
| Output signal | | analogue signal; IO-Link;  (configurable) | |
| Number of analogue outputs | | 1 | |
| Analogue current output | [mA] | 4...20 | |
| Max. load | [Ω] | 250;  ((18...19 V); 19...32 V: 300 Ω) | |
| Short-circuit protection | | yes | |
| Overload protection | | yes | |
| **Measuring/setting range** | | | |
| Probe length L | [mm] | 10.8 | |
| Measuring range | [°C] | -50...200 | |
| Factory setting | | 0...100 °C | |

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| | | | |
|---|---|---|---|
| **Resolution** | | | |
| Resolution of analogue output | [K] | 0.04 | |
| **Accuracy / deviations** | | | |
| Precision analogue output | [K] | ± 0,3 + (± 0,1 % MS) | |
| Temperature coefficient | [% of the span / 10 K] | 0,1; (in case of deviation from the reference condition 25 ± 5 °C) | |
| **Response times** | | | |
| Dynamic response T05 / T09 | [s] | < 0,25 / < 1 | |
| **Interfaces** | | | |
| Communication interface | | IO-Link | |
| Transmission type | | COM2 (38,4 kBaud) | |
| IO-Link revision | | 1.1 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Note on ambient temperature | | at medium temperature: < 160 °C | |
| | | -25...60 °C | |
| | | at medium temperature: < 200 °C | |
| Storage temperature | [°C] | -40...100 | |
| Protection | | IP 67; IP 68; IP 69K | |
| **Tests / approvals** | | | |
| EMC | | DIN EN 61000-6-2 | |
| | | DIN EN 61000-6-3 | |
| Shock resistance | | DIN IEC 68-2-27 | 50 g (11 ms) |
| Vibration resistance | | DIN IEC 68-2-6 | 10 g (10...2000 Hz) |
| MTTF | [years] | 334 | |
| Note on approval | | factory certificate available as download at www.factory-certificate.ifm | |
| UL approval | | UL Approval no. | K002 |
| **Mechanical data** | | | |
| Weight | [g] | 112 | |
| Housing | | cylindrical | |
| Dimensions | [mm] | Ø 18.7 / L = 99.9 | |
| Materials | | stainless steel (316L/1.4404); PEI; FKM | |
| Materials (wetted parts) | | stainless steel (316L/1.4404) electropolished | |
| Tightening torque | [Nm] | 20 | |
| Process connection | | threaded connection M12 x 1,5 external thread sealing cone | |
| Surface characteristics Ra/Rz of the wetted parts | | Ra: < 0.8 | |
| Probe diameter | [mm] | 3 | |
| Installation length EL | [mm] | 17 | |
| **Remarks** | | | |
| Remarks | | MS = set measuring span | |
| | | The values for accuracy apply to flowing water. | |
| Pack quantity | | 1 pcs. | |

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## Electrical connection

Connector: 1 x M12; coding: A




### Connection

