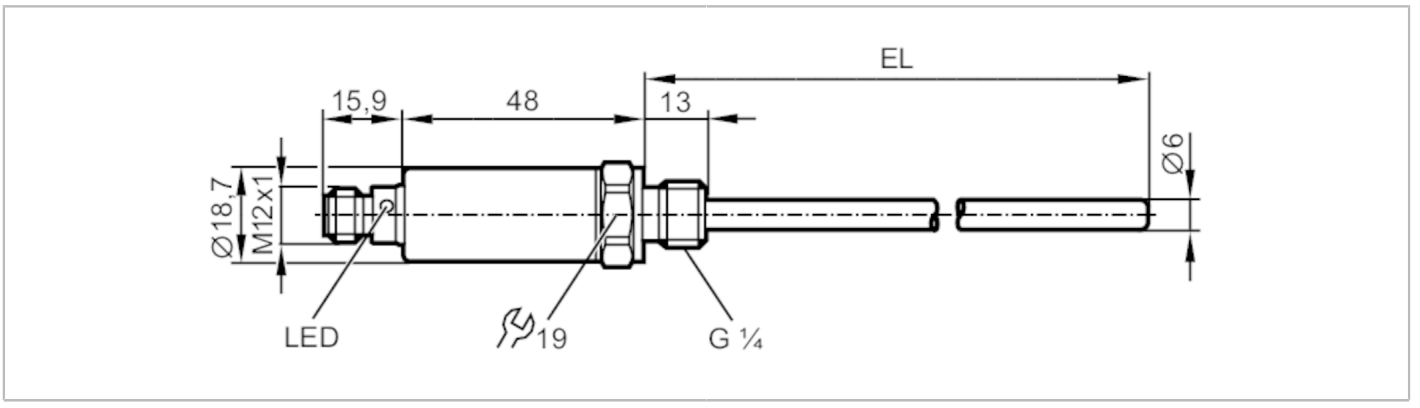
# TA2145

## Temperature transmitter

TA-150CLER14-A-ZVG/US




| | | |
|---|---|---|
| **Product characteristics** | | |
| Number of inputs and outputs | | Number of analogue outputs: 1 |
| Measuring range | [°C] | -50...150 |
| Communication interface | | IO-Link |
| Process connection | | threaded connection G 1/4 |
| Installation length EL | [mm] | 150 |
| **Application** | | |
| Special feature | | Gold-plated contacts |
| Measuring element | | 1 x Pt 1000;  (to DIN EN 60751, class A) |
| Media | | liquids and gases |
| Pressure rating | [bar] | 300 |
| Note on pressure rating | | sensor |
| | | When mounted in adapters the specifications of the adapter data sheet apply. |
| **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] | 1 |
| **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** | | |
| Measuring range | [°C] | -50...150 |

# TA2145

## Temperature transmitter

TA-150CLER14-A-ZVG/US

| | | | |
|---|---|---|---|
| Factory setting | | | -50...150 °C |
| **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] | | 1 / 3 |
| **Interfaces** | | | |
| Communication interface | | | IO-Link |
| Transmission type | | | COM2 (38,4 kBaud) |
| IO-Link revision | | | 1.1 |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | | -25...80 |
| Storage temperature | [°C] | | -40...100 |
| Protection | | | IP 67; IP 68; IP 69K |
| **Tests / approvals** | | | |
| EMC | | DIN EN 61000-6-2 | |
| Shock resistance | | DIN IEC 68-2-27 | 50 g (11 ms) |
| Vibration resistance | | DIN IEC 68-2-6 | 20 g (10...2000 Hz) |
| MTTF | [years] | | 572 |
| UL approval | | UL Approval no. | K002 |
| **Mechanical data** | | | |
| Weight | [g] | | 108 |
| Dimensions | [mm] | | Ø 18.7 |
| Materials | | | stainless steel (1.4404 / 316L); PEI; FKM |
| Materials (wetted parts) | | | stainless steel (1.4404 / 316L); O-ring: FKM |
| Tightening torque | [Nm] | | 35 |
| Process connection | | | threaded connection G 1/4 |
| Probe diameter | [mm] | | 6 |
| Installation length EL | [mm] | | 150 |
| **Displays / operating elements** | | | |
| Display | | operating status | 1 x LED, green |
| **Remarks** | | | |
| Remarks | | | MS = set measuring span |
| Pack quantity | | | 1 pcs. |

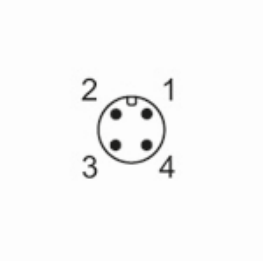
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## Temperature transmitter

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## Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated




### Connection

