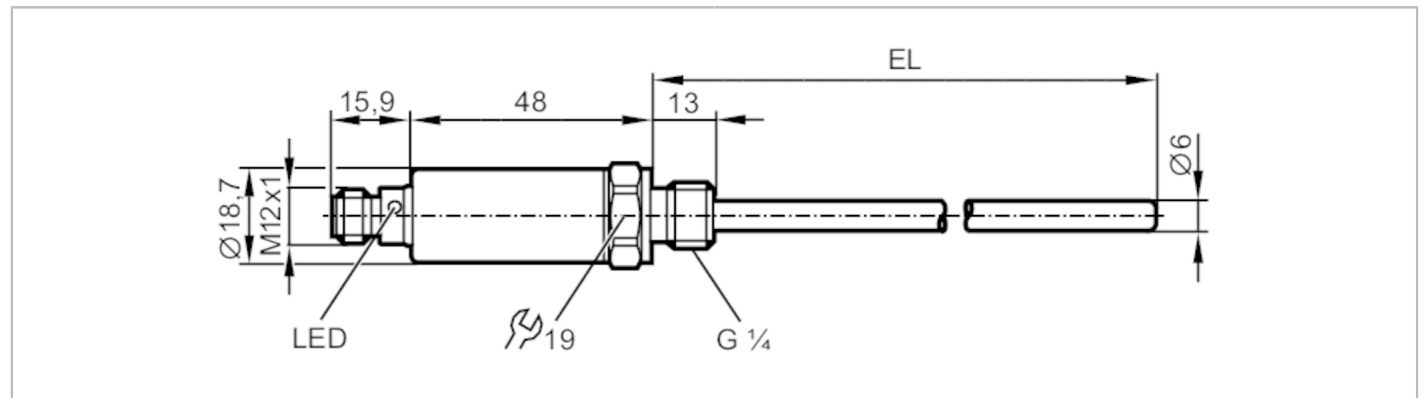


# TA2145



## Temperature transmitter

TA-150CLER14-A-ZVG/US



| Application                                                                  |                                                                    |
|------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 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                                                                  |
| 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                                                          |
| 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                                                              |

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### 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 |
| 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.                  |

### Electrical connection

Connector: 1 x M12; Contacts: gold-plated



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### Connection

