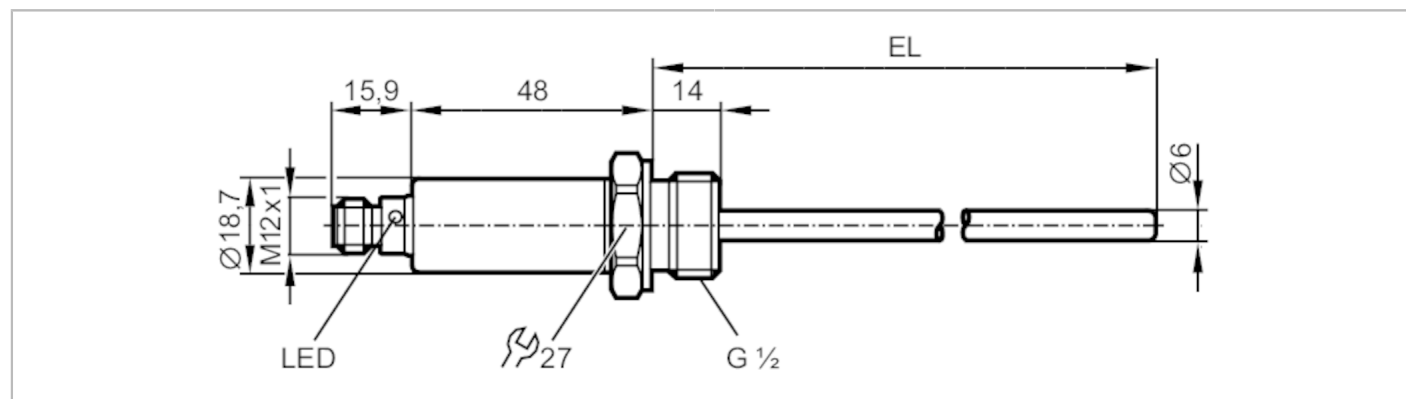


# TA2447



## Temperature transmitter

TA-150CLER12-A-ZVG/US



### Application

|                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| Measuring element       | 1 x Pt 1000; (to DIN EN 60751, class A)                                      |
| Media                   | liquids and gases                                                            |
| Pressure rating [bar]   | 160                                                                          |
| 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  |
| Factory setting      | 0...100 °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) |

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| 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]                                      | 346                 |
| UL approval                                                                                    | UL Approval no.                              | K002                |
| Mechanical data                                                                                |                                              |                     |
| Weight                                                                                         | [g]                                          | 142.4               |
| Materials                                                                                      | stainless steel (1.4404 / 316L); PEI; FKM    |                     |
| Materials (wetted parts)                                                                       | stainless steel (1.4404 / 316L); O-ring: FKM |                     |
| Process connection                                                                             | threaded connection G 1/2                    |                     |
| 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                                                      |                                              |                     |
| <div></div> |                                              |                     |

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### Connection

