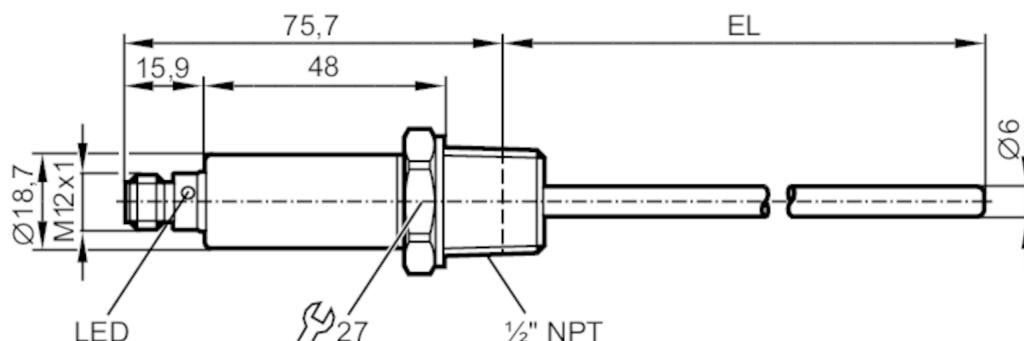


# TA2345



## Temperature transmitter

TA-150CLEN12-A-ZVG/US



### Product characteristics

|                              |                                              |
|------------------------------|----------------------------------------------|
| Number of inputs and outputs | Number of analog outputs: 1                  |
| Measuring range [°C]         | -50...150                                    |
| Communication interface      | IO-Link                                      |
| Process connection           | threaded connection 1/2" NPT external thread |
| 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                                                              | 160 bar 16 MPa                          |
| 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; (cULus - Class 2 source required) |
| 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 analog outputs: 1 |
|------------------------------|-----------------------------|

### Outputs

|                            |                                        |
|----------------------------|----------------------------------------|
| Total number of outputs    | 1                                      |
| Output signal              | analog signal; IO-Link; (configurable) |
| Number of analog outputs   | 1                                      |
| Analog 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 |
|----------------------|-----------|

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|                               |  |                                                                    |                      |
|-------------------------------|--|--------------------------------------------------------------------|----------------------|
| Factory setting               |  | -50...150 °C                                                       |                      |
| Resolution                    |  |                                                                    |                      |
| Resolution of analog output   |  | [K]                                                                | 0.04                 |
| Accuracy / deviations         |  |                                                                    |                      |
| Precision analog output       |  | [K]                                                                | ± 0,3 + (± 0,1 % MS) |
| Temperature coefficient       |  | 0,1; (In case of deviation from the reference condition 25 ± 5 °C) |                      |
|                               |  | [% of the span / 10 K]                                             |                      |
| Reaction times                |  |                                                                    |                      |
| Dynamic response T05 / T09    |  | [s]                                                                | 1 / 3                |
| Interfaces                    |  |                                                                    |                      |
| Communication interface       |  | IO-Link                                                            |                      |
| Transmission type             |  | COM2 (38,4 kBaud)                                                  |                      |
| IO-Link revision              |  | 1.1                                                                |                      |
| Profiles                      |  | Smart Sensor - SSP 0                                               |                      |
|                               |  | Generic Profiled Sensor                                            |                      |
|                               |  | Function                                                           |                      |
|                               |  | Device identification                                              |                      |
|                               |  | Function                                                           |                      |
|                               |  | Process data variable                                              |                      |
| Min. process cycle time       |  | [ms]                                                               | 2.3                  |
| Supported DeviceIDs           |  | Type of operation                                                  |                      |
|                               |  | DeviceID                                                           |                      |
|                               |  | default                                                            |                      |
|                               |  | 377                                                                |                      |
| 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                                                    |                      |
| Vibration resistance          |  | 50 g (11 ms)                                                       |                      |
| MTTF                          |  | [years]                                                            | 320                  |
| UL approval                   |  | DIN IEC 68-2-6                                                     |                      |
|                               |  | 20 g (10...2000 Hz)                                                |                      |
|                               |  | UL approval number                                                 |                      |
|                               |  | K002                                                               |                      |
| Mechanical data               |  |                                                                    |                      |
| Weight                        |  | [g]                                                                | 149                  |
| Dimensions                    |  | [mm]                                                               | Ø 18.7 / L = 225.7   |
| Material                      |  | stainless steel (1.4404 / 316L); PEI; FKM                          |                      |
| Materials (wetted parts)      |  | stainless steel (1.4404 / 316L)                                    |                      |
| Process connection            |  | threaded connection 1/2" NPT external thread                       |                      |
| 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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### Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



### Connection

