

# TA2405



## Temperature transmitter

TA-030CLER12-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 G 1/2 external thread |
| Installation length EL [mm]  | 30                                        |

### Application

|                         |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| Special feature         | gold-plated contacts                                                         |
| Measuring element       | 1 x Pt 1000; (to DIN EN 60751, class A)                                      |
| Media                   | liquids and gases                                                            |
| Pressure rating         | 400 bar 40 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

|                     |    |
|---------------------|----|
| Probe length L [mm] | 16 |
|---------------------|----|

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|                                                   |                      |                                                                    |
|---------------------------------------------------|----------------------|--------------------------------------------------------------------|
| Measuring range                                   | [°C]                 | -50...150                                                          |
| 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<br>[% of the span / 10 K] |                      | 0,1; (In case of deviation from the reference condition 25 ± 5 °C) |
| 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      | 50 g (11 ms)                                                       |
| Vibration resistance                              | DIN IEC 68-2-6       | 20 g (10...2000 Hz)                                                |
| MTTF                                              | [years]              | 572                                                                |
| UL approval                                       | UL approval number   | K002                                                               |
| Mechanical data                                   |                      |                                                                    |
| Weight                                            | [g]                  | 122.5                                                              |
| Housing                                           |                      | tubular                                                            |
| Dimensions                                        | [mm]                 | Ø 18.7 / L = 93.9                                                  |
| Material                                          |                      | stainless steel (1.4404 / 316L); PEI; FKM                          |
| Materials (wetted parts)                          |                      | stainless steel (1.4404 / 316L); O-ring: FKM                       |
| Tightening torque                                 | [Nm]                 | 45                                                                 |
| Process connection                                |                      | threaded connection G 1/2 external thread                          |
| Probe diameter                                    | [mm]                 | 6                                                                  |
| Installation length EL                            | [mm]                 | 30                                                                 |
| Displays / operating elements                     |                      |                                                                    |
| Display                                           | operating status     | 1 x LED, green                                                     |
| Remarks                                           |                      |                                                                    |
| Remarks                                           |                      | MS = set measuring span                                            |

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Pack quantity

1 pcs.

### Electrical connection

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



### Connection

