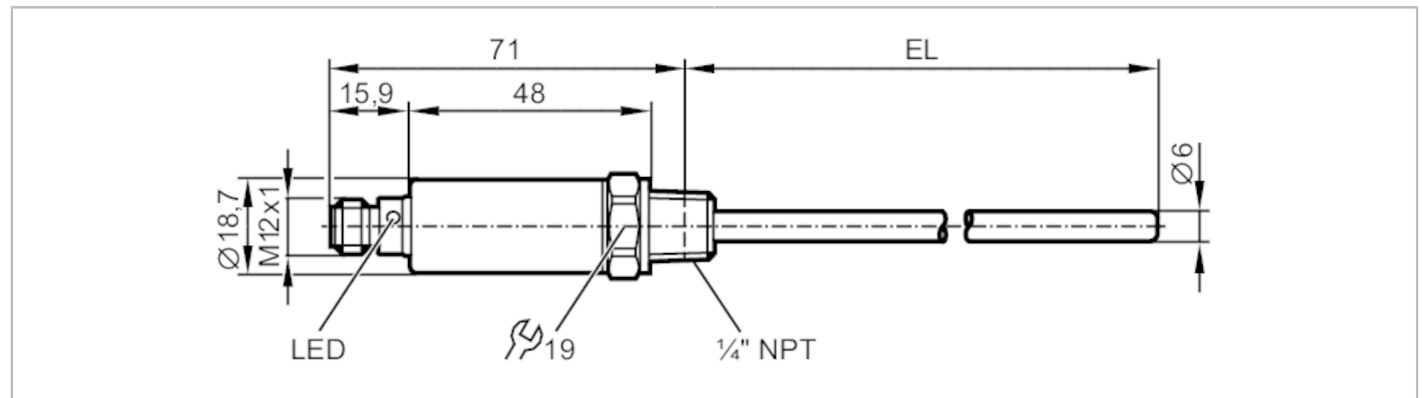


# TA2603



## Temperature transmitter

TA025FLEN14-A-ZVG/US



### Product characteristics

|                              |                                              |
|------------------------------|----------------------------------------------|
| Number of inputs and outputs | Number of analog outputs: 1                  |
| Measuring range [°F]         | -58...302                                    |
| Communication interface      | IO-Link                                      |
| Process connection           | threaded connection 1/4" NPT external thread |
| Installation length EL [mm]  | 25                                           |

### 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. |
| MAWP (for applications according to CRN) [bar] | 400                                                                          |

### 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                                    |

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| Measuring/setting range                           |                          |                                                                    |
|---------------------------------------------------|--------------------------|--------------------------------------------------------------------|
| Probe length L                                    | [mm]                     | 17.1                                                               |
| Measuring range                                   | [°F]                     | -58...302                                                          |
| Factory setting                                   |                          | 0...300 °F                                                         |
| 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                               | <b>Type of operation</b> | <b>DeviceID</b>                                                    |
|                                                   | default                  | 378                                                                |
| 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]                      | 87.5                                                               |
| Dimensions                                        | [mm]                     | Ø 18.7 / L = 96                                                    |
| Material                                          |                          | stainless steel (1.4404 / 316L); PEI; FKM                          |
| Materials (wetted parts)                          |                          | stainless steel (1.4404 / 316L)                                    |
| Process connection                                |                          | threaded connection 1/4" NPT external thread                       |
| Probe diameter                                    | [mm]                     | 6                                                                  |
| Installation length EL                            | [mm]                     | 25                                                                 |
| 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: 4, gold-plated



### Connection

