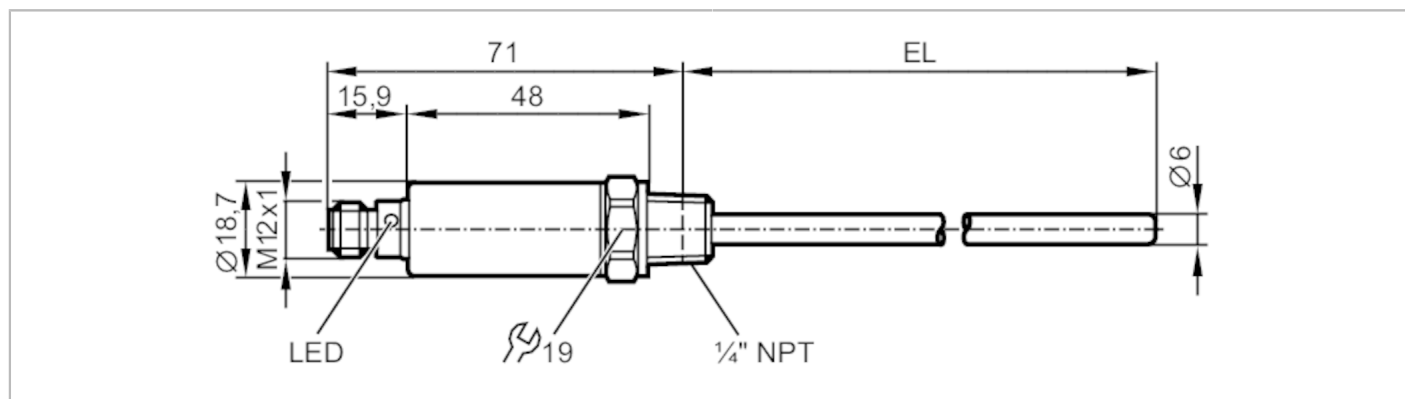


# TA2643



## Temperature transmitter

TA150FLEN14-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]  | 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                                | 300 bar   30 MPa   |
| Note on pressure rating                        | sensor<br>When mounted in adapters the specifications of the adapter data sheet apply. |
| MAWP (for applications according to CRN) [bar] | 300  |

### 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]                                | 142.1  |
| 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><br>default | <b>DeviceID</b><br>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]                                 | 102.45   |
| Dimensions  | [mm]                                | Ø 18.7 / L = 221   |
| 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]                                | 150  |
| 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

