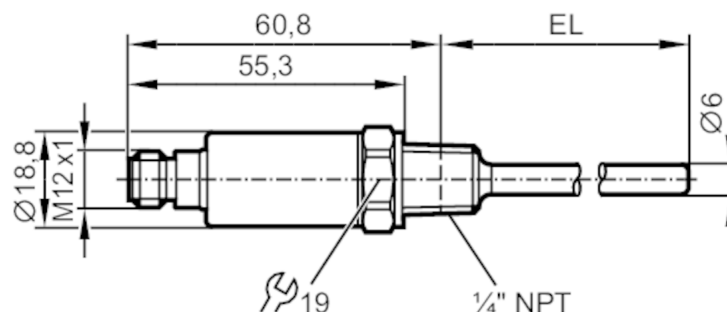


# TA3317



## Temperature transmitter

TA-050CLEN14-A-ZVG/US



### Product characteristics

|                              |                                              |             |
|------------------------------|----------------------------------------------|-------------|
| Number of inputs and outputs | Number of analogue outputs: 1                |             |
| Measuring range              | 0...100 °C                                   | 32...212 °F |
| Process connection           | threaded connection 1/4" NPT external thread |             |
| Installation length EL [mm]  | 50                                           |             |

### Application

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

### Electrical data

|                             |                                         |  |
|-----------------------------|-----------------------------------------|--|
| Operating voltage [V]       | 10...30 DC; ("supply class 2" to cULus) |  |
| Current consumption [mA]    | < 30                                    |  |
| Protection class            | III                                     |  |
| Reverse polarity protection | yes                                     |  |

### Inputs / outputs

|                              |                               |  |
|------------------------------|-------------------------------|--|
| Number of inputs and outputs | Number of analogue outputs: 1 |  |
|------------------------------|-------------------------------|--|

### Outputs

|                              |                                                 |  |
|------------------------------|-------------------------------------------------|--|
| Total number of outputs      | 1                                               |  |
| Output signal                | analogue signal                                 |  |
| Number of analogue outputs   | 1                                               |  |
| Analogue current output [mA] | 4...20                                          |  |
| Max. load [Ω]                | (U <sub>b</sub> - 8,5 V) / 21,5 mA; 24 V: 720 Ω |  |
| Short-circuit protection     | yes                                             |  |
| Overload protection          | yes                                             |  |

### Measuring/setting range

|                     |            |             |
|---------------------|------------|-------------|
| Probe length L [mm] | 40.5       |             |
| Measuring range     | 0...100 °C | 32...212 °F |

### Resolution

|                                   |      |  |
|-----------------------------------|------|--|
| Resolution of analogue output [K] | 0.04 |  |
|-----------------------------------|------|--|

# TA3317



## Temperature transmitter

TA-050CLEN14-A-ZVG/US

| Accuracy / deviations                                                               |                                                                                                                                                                                                                                        |                                                                                               |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Precision analogue output                                                           | [K]                                                                                                                                                                                                                                    | $\pm 0,3 + (\pm 0,1 \% \text{ MS})$                                                           |
| Temperature coefficient                                                             | [% of the span / 10 K]                                                                                                                                                                                                                 | 0,1; (in case of deviation from the reference condition $25 \pm 5 \text{ }^{\circ}\text{C}$ ) |
| Response times                                                                      |                                                                                                                                                                                                                                        |                                                                                               |
| Dynamic response T05 / T09                                                          | [s]                                                                                                                                                                                                                                    | 1 / 3; (to DIN EN 60751)                                                                      |
| Operating conditions                                                                |                                                                                                                                                                                                                                        |                                                                                               |
| Ambient temperature                                                                 | [ $^{\circ}\text{C}$ ]                                                                                                                                                                                                                 | -40...100                                                                                     |
| Storage temperature                                                                 | [ $^{\circ}\text{C}$ ]                                                                                                                                                                                                                 | -40...100                                                                                     |
| Protection                                                                          |                                                                                                                                                                                                                                        | IP 68; IP 69K                                                                                 |
| Tests / approvals                                                                   |                                                                                                                                                                                                                                        |                                                                                               |
| EMC                                                                                 | DIN EN 61000-6-2                                                                                                                                                                                                                       |                                                                                               |
|                                                                                     | DIN EN 61000-6-3                                                                                                                                                                                                                       |                                                                                               |
| Shock resistance                                                                    | DIN EN 60068-2-27                                                                                                                                                                                                                      | 50 g (11 ms)                                                                                  |
| Vibration resistance                                                                | DIN EN 60068-2-6                                                                                                                                                                                                                       | 20 g (10...2000 Hz)                                                                           |
| MTTF                                                                                | [years]                                                                                                                                                                                                                                | 1092                                                                                          |
| UL approval                                                                         | UL Approval no.                                                                                                                                                                                                                        | K005                                                                                          |
| Mechanical data                                                                     |                                                                                                                                                                                                                                        |                                                                                               |
| Weight                                                                              | [g]                                                                                                                                                                                                                                    | 97.5                                                                                          |
| Housing                                                                             |                                                                                                                                                                                                                                        | cylindrical                                                                                   |
| Dimensions                                                                          | [mm]                                                                                                                                                                                                                                   | $\varnothing 18.8 / L = 110.8$                                                                |
| Materials                                                                           |                                                                                                                                                                                                                                        | stainless steel (316L/1.4404); PEI; FKM                                                       |
| Materials (wetted parts)                                                            |                                                                                                                                                                                                                                        | stainless steel (316L/1.4404)                                                                 |
| Process connection                                                                  |                                                                                                                                                                                                                                        | threaded connection 1/4" NPT external thread                                                  |
| Probe diameter                                                                      | [mm]                                                                                                                                                                                                                                   | 6                                                                                             |
| Installation length EL                                                              | [mm]                                                                                                                                                                                                                                   | 50                                                                                            |
| Remarks                                                                             |                                                                                                                                                                                                                                        |                                                                                               |
| Remarks                                                                             | The values for accuracy apply to flowing water.<br>referring to UL: for use on a low voltage circuit with overcurrent protection<br>in accordance with UL873 tab. 28.1 or $I_{\text{max}} = 100/U_b$ ( $U_b$ = voltage of the circuit) |                                                                                               |
| Pack quantity                                                                       |                                                                                                                                                                                                                                        | 1 pcs.                                                                                        |
| Electrical connection                                                               |                                                                                                                                                                                                                                        |                                                                                               |
| Connector: 1 x M12; coding: A; Contacts: gold-plated                                |                                                                                                                                                                                                                                        |                                                                                               |
|  |                                                                                                                                                                                                                                        |                                                                                               |



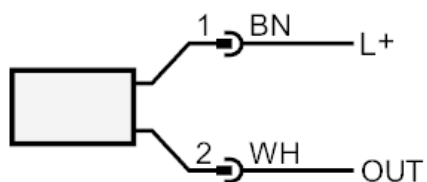
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## Temperature transmitter

TA-050CLEN14-A-ZVG/US

### Connection



OUT:                   analogue output  
                         colours to DIN EN 60947-5-2