


# IB IL TEMP CON UTH-PAC

Order No.: 2861807



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Inline temperature regulators, complete with accessories (connector and labeling field), 8 inputs for thermocouples, 8 outputs, 24 V DC, 2-wire connection method

| Commercial data          |   |
|--------------------------|---|
| GTIN (EAN)               | 4 017918 951030  |
| Note                     | Made-to-order   |
| sales group              | K413  |
| Pack                     | 1 pcs.  |
| Customs tariff           | 85389091  |
| Catalog page information | Page 53 (AX-2005)   |

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

| Technical data              |                               |
|-----------------------------|-------------------------------|
| <b>Interfaces</b>           |                               |
| Interface                   | Inline local bus              |
| Type of connection          | Inline data jumper            |
| <b>Power supply</b>         |                               |
| Communications power $U_L$  | 7.5 V DC (via voltage jumper) |
| Typical current consumption | 250 mA                        |
| Max. current consumption    | 4 A                           |

### Electrical isolation

|              |  |
|--------------|--|
| Test section | 5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min |
|              | 5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min |
|              | 7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min               |
|              | 24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min               |
|              | Analog inputs/bus logics 500 V AC 50 Hz 1 min                                  |
|              | Analog inputs/24 V supply (I/O) 500 V AC 50 Hz 1 min                           |
|              | Analog inputs/functional earth ground 500 V AC 50 Hz 1 min                     |

### Inputs

|                               |                         |
|-------------------------------|-------------------------|
| Number of inputs              | 8                       |
| Connection method             | 2-wire                  |
| Measured value representation | Depends on thermocouple |
| Measured value resolution     | 0.1 K                   |
| A/D conversion time           | Approx. 70 ms           |

### General data

|  |                        |
|--|------------------------|
| Degree of protection                   | IP20                   |
| Weight                                 | 122 g                  |
| Number of connectors                   | 4                      |
| Width                                  | 48.8 mm                |
| Height                                 | 119.8 mm               |
| Depth                                  | 71.5 mm                |
| Mounting type                          | DIN rail               |
| Name                                   | Inline connectors      |
| Type of connection                     | Spring-cage connection |
| Conductor cross section solid min.     | 0.08 mm <sup>2</sup>   |
| Conductor cross section solid max.     | 1.5 mm <sup>2</sup>    |
| Conductor cross section stranded min.  | 0.08 mm <sup>2</sup>   |
| Conductor cross section stranded max.  | 1.5 mm <sup>2</sup>    |
| Conductor cross section AWG/kcmil min. | 28                     |
| Conductor cross section AWG/kcmil max  | 16                     |
| Connection method                      | 2-wire (shielded)      |

### Outputs

|                   |   |
|-------------------|---|
| Number of outputs | 8 |
|-------------------|---|

|                   |                   |
|-------------------|-------------------|
| Connection method | 2-wire (shielded) |
| Output voltage    | 24 V DC           |
| Output current    | 70 mA             |

#### Inline potential routing

|                                    |                         |
|------------------------------------|-------------------------|
| Communications power $U_L$         | 7.5 V                   |
| Current consumption from $U_L$     | max. 250 mA             |
|                                    | Typ. 90 mA              |
| Segment supply voltage $U_S$       | 24 V DC (nominal value) |
| Current consumption from $U_S$     | max. 0.6 A              |
| Current consumption from $U_{ANA}$ | Typ. 20 mA              |

#### Certificates / Approvals



|                   |                       |
|-------------------|-----------------------|
| Certification     | CUL, GOST, UL         |
| Certification Ex: | CUL-EX LIS, UL-EX LIS |

#### Accessories

| Item    | Designation     | Description  |
|---------|-----------------|--|
| 2819419 | TEMPCON CAB-V24 | Interface cable for Inline temperature controllers (IB IL TEMPCON ...), single |

#### Literature

|         |                             |   |
|---------|-----------------------------|---|
| 2698818 | IB IL TEMPCON FUNCTION UM   | User manual, German, for setting the controller functions of Inline temperature controllers, only available as a download.  |
| 2698821 | IB IL TEMPCON FUNCTION UM E | User manual, English, for setting the controller functions of Inline temperature controllers, only available as a download. |
| 2698795 | IB IL TEMPCON UTH SYS UM    | User manual, German, for Inline temperature controllers, only available as a download.                                      |
| 2698805 | IB IL TEMPCON UTH SYS UM E  | User manual, English, for Inline temperature controllers, only available as a download.                                     |

**Marking**

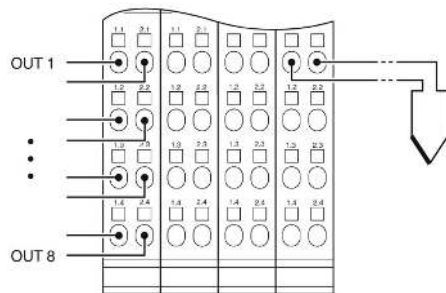
|         |           |   |
|---------|-----------|---|
| 0809492 | ESL 62X10 | Insert strip for laser printer, lettering field: 62 x 10 mm |
|---------|-----------|---|

**Software**

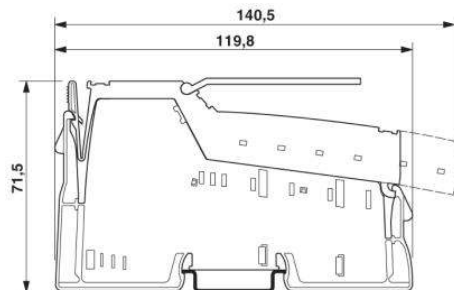
|         |                   |  |
|---------|-------------------|--|
| 2819370 | IB IL TEMPCONTROL | License key for using the engineering tools for the multi-channel process controllers of type: IB IL TEMPCON 300, including interface cable TEMPCON CAB-V24. The software must also be downloaded. |
|---------|-------------------|--|

**Diagrams/Drawings**

Connection diagram



Dimensioned drawing



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