

## Inline function terminal - IB IL TEMPCON UTH-PAC - 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

### Product Features

- 8 analog inputs for thermocouples
- 8 outputs, 24 V DC, 70 mA
- Can be configured as a 2-step controller, 3-step controller, motor step controller or signaling device (threshold value switch)
- Self-tuning
- Heating current and closed-loop control circuit monitoring
- Configuration via engineering tool (configuration software)



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 222.6 g  |
| Custom tariff number                 | 85389091 |
| Country of origin                    | Germany  |

### Technical data

#### Note

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---------------------------------------------------------------------------|

#### Dimensions

|        |          |
|--------|----------|
| Width  | 48.8 mm  |
| Height | 119.8 mm |
| Depth  | 71.5 mm  |

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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## Technical data

### Interfaces

|                    |                    |
|--------------------|--------------------|
| Interface          | Inline local bus   |
| Connection method  | Inline data jumper |
| Transmission speed | 500 kBit/s         |

### Power supply

|                             |                               |
|-----------------------------|-------------------------------|
| 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

|                                       |                        |
|---------------------------------------|------------------------|
| Weight                                | 122 g                  |
| Number of plugs                       | 4                      |
| Mounting type                         | DIN rail               |
| Designation                           | Inline connector       |
| Connection method                     | 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 flexible min. | 0.08 mm <sup>2</sup>   |
| Conductor cross section flexible max. | 1.5 mm <sup>2</sup>    |
| Conductor cross section AWG min.      | 28                     |
| Conductor cross section AWG max.      | 16                     |
| Connection method                     | 2-wire (shielded)      |

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## Technical data

### Outputs

|                   |                   |
|-------------------|-------------------|
| Number of outputs | 8                 |
| Connection method | 2-wire (shielded) |
| Output voltage    | 24 V DC           |
| Output current    | 70 mA             |

### Inline potentials

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

### Standards and Regulations

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| 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.                     |
| Connection in acc. with standard | CUL                                                                             |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250304 |
| eCl@ss 4.1 | 27250304 |
| eCl@ss 5.0 | 27250304 |
| eCl@ss 5.1 | 27242605 |
| eCl@ss 6.0 | 27242605 |
| eCl@ss 7.0 | 27242605 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001433 |
| ETIM 3.0 | EC001601 |
| ETIM 4.0 | EC001601 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001601 |
|----------|----------|

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 43201404 |

### Accessories

#### Accessories

##### Adapter cable

Interface cable - TEMPCON CAB-V24 - 2819419



Interface cable for Inline temperature controllers (IB IL TEMPCON ...), single

### Configuration and diagnostics

License key - IB IL TEMPCONTROL - 2819370



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.

### Documentation

User manual - IB IL TEMPCON FUNCTION UM E - 2698821



User manual, English, for setting the controller functions of Inline temperature controllers, only available as a download.

## Inline function terminal - IB IL TEMPCON UTH-PAC - 2861807

### Accessories

#### Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

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User manual - IB IL TEMPCON UTH SYS UM - 2698795



User manual, German, for Inline temperature controllers, only available as a download.

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User manual - IB IL TEMPCON UTH SYS UM E - 2698805



User manual, English, for Inline temperature controllers, only available as a download.

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User manual - IB IL TEMPCON FUNCTION UM - 2698818



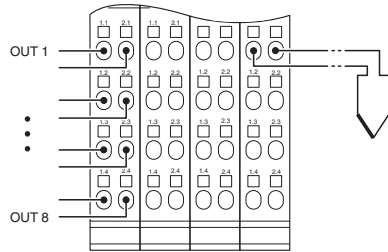
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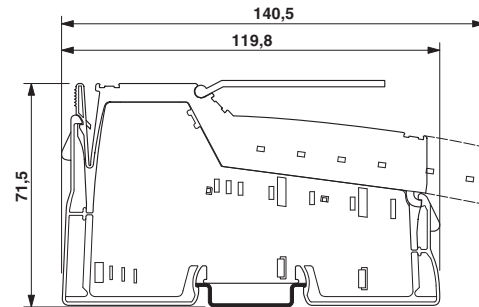
### Drawings

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Connection diagram



Dimensional drawing



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