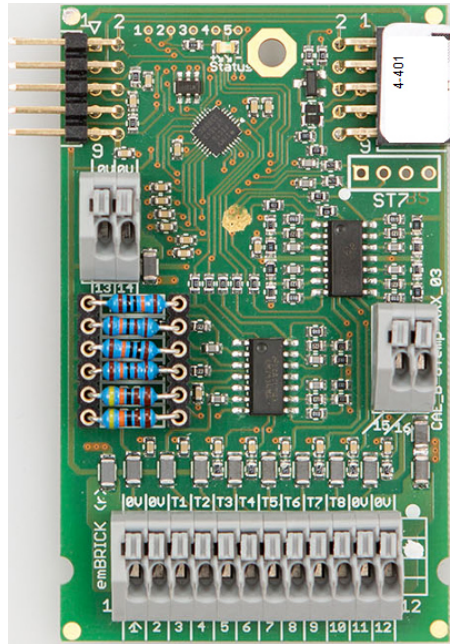


CAE_B-8Temp-01



1.1 Description

ID: 4-401

Order No.: CAE_B-8Temp-01 (-p)

Terminal: push-in ($\leq 0.5\text{mm}^2$)

Size: 4 eU (44mm x 72mm)

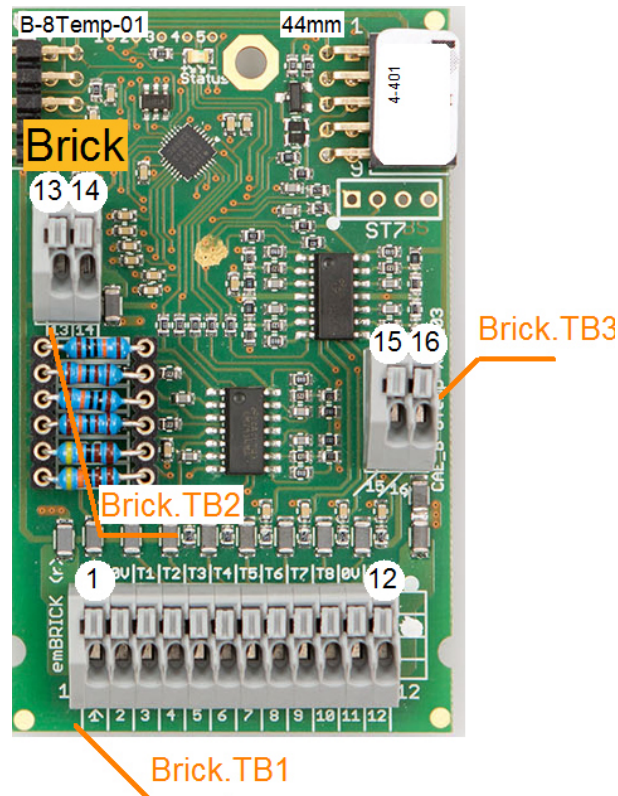
BBFCP: 1-1-1

Weight: 30g

This module includes eight inputs for a temperature sensor with different ranges.

It is typically used with a KTY with 2kOhm at 25°C. The module is equipped with enough clamps for the second connector of the sensor.

1.2 Connectors and Indication-/Operation-Elements



1.2.1 Terminal block (TB)

The following illustration the technical details for Terminal blocks are listed. The location of a specific block is documented with the ID (left column) in the previous illustration.

| ID | Model | Model / Series | Grid | Num. of term. | connection | elec. usage |
|------------|---------------|----------------|-------|---------------|-----------------------------------|--------------|
| Brick.TB01 | Cage Terminal | WAGO250 | 2.5mm | 12 | up to 0.5mm ² or 0,8mm | signal level |
| Brick.TB02 | Cage Terminal | WAGO250 | 2.5mm | 2 | up to 0.5mm ² or 0,8mm | signal level |
| Brick.TB03 | Cage Terminal | WAGO250 | 2.5mm | 2 | up to 0.5mm ² or 0,8mm | signal level |

1.2.2 Terminal assignment

Here the assignment of individual terminals and their affiliation to terminal blocks (Te block), terminal numbers (Te no.) and short description (T.desc.) as well as their electrical function and usage are explained.

The associated mechanical and electrical properties are stated with the specific terminal block in the previous chapter. The position of a terminal is dedicated through the "Te block" and the actual terminal number (Te no.) or the terminal description (T.descr.) in the previous illustration respectively.

In the column "usage" the technical-/ device-functional use is listed.

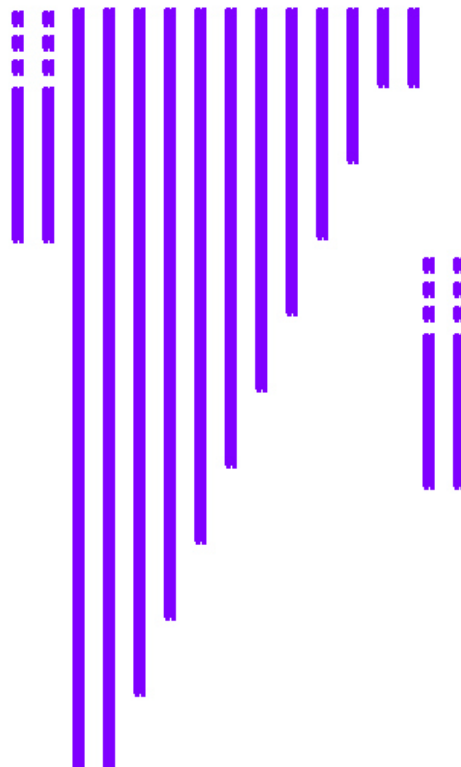
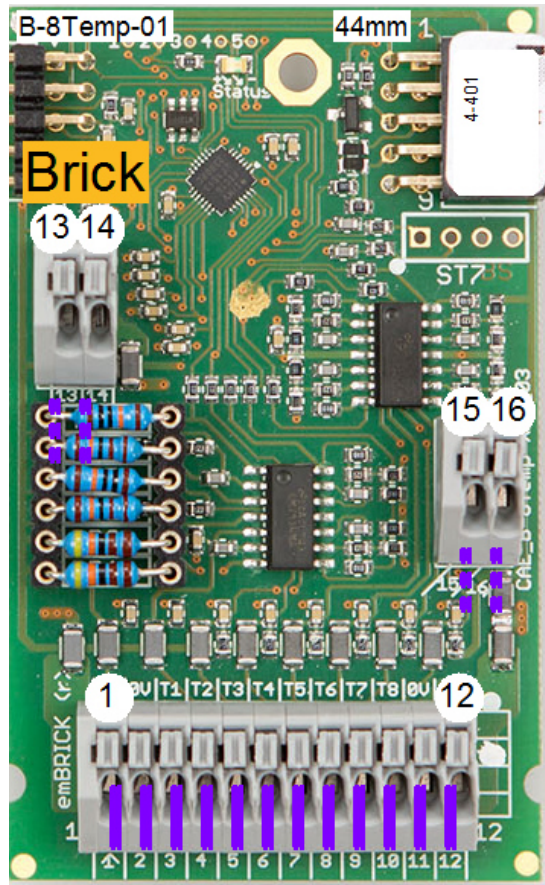
| Te block | Te no. | T. descr. | Function | Usage |
|------------|--------|-----------|--------------------------|-------|
| Brick.TB00 | 0 | Tmp | Input Temperature Sensor | Temp1 |
| Brick.TB00 | 1 | 0V | Ground | Temp1 |
| Brick.TB00 | 2 | Tmp | Input Temperature Sensor | Temp2 |
| Brick.TB00 | 3 | 0V | Ground | Temp2 |
| Brick.TB00 | 4 | Tmp | Input Temperature Sensor | Temp3 |
| Brick.TB00 | 5 | 0V | Ground | Temp3 |
| Brick.TB00 | 6 | Tmp | Input Temperature Sensor | Temp4 |
| Brick.TB00 | 7 | 0V | Ground | Temp4 |
| Brick.TB00 | 8 | Tmp | Input Temperature Sensor | Temp5 |
| Brick.TB00 | 9 | 0V | Ground | Temp5 |
| Brick.TB00 | 10 | Tmp | Input Temperature Sensor | Temp6 |
| Brick.TB00 | 11 | 0V | Ground | Temp6 |
| Brick.TB00 | 12 | Tmp | Input Temperature Sensor | Temp7 |
| Brick.TB00 | 13 | 0V | Ground | Temp7 |
| Brick.TB00 | 14 | Tmp | Input Temperature Sensor | Temp8 |
| Brick.TB00 | 15 | 0V | Ground | Temp8 |

1.2.3 LED Indications

| ID | Type | Specification | Type / Usage |
|----------------|---------|---------------|--------------------------|
| Brick.StateLED | SMD-LED | yellow | communicationstate Brick |

1.3 Input-/Output Scheme

The following diagram shows the adaption of the control unit. To avoid overlapping, some wires are displayed interrupted and dashed.



1.4 Technical Data

1.4.1 Analog Inputs

The control unit has the following analogue inputs / measuring inputs:

| | |
|---------------------|---|
| Identifier | Temp1 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|---------------------|---|
| Identifier | Temp2 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|---------------------|---|
| Identifier | Temp3 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|---------------------|---|
| Identifier | Temp4 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |

| | |
|----------------|-----------|
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1 s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|---------------------|---|
| Identifier | Temp5 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1 s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|---------------------|---|
| Identifier | Temp6 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1 s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|---------------------|---|
| Identifier | Temp7 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1 s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

| | |
|------------|---|
| Identifier | Temp8 |
| Type | Temperature input, KTY81-2k, -30...80°C |
| Range | -30 ... 80°C |

| | |
|---------------------|----------|
| Input/Load Resistor | - |
| Resolution | 0.1% |
| Accuracy | 2% |
| Linearity | 1% |
| Filter | Tau = 1s |
| Linearization | - |
| Model / Series | KTY2k |
| Remark | |

1.4.2 User Notes

- Blinking behavior StateLED:
Each Morse code is 3 seconds long!
not initialized = flashing continuously at approx. 5Hz
no communication = short-long-short
too little communication = short-short-short
disturbed communication = short-long-long
OK = continuous flashing at approx. 1Hz (0.6-1.5Hz)

1.5 History

On the following page you will find a list of changes that have been made to the product.

1.5.1 History

| Date | Entry scope (HW, SWappl, SWapi, Release) | Entry type (Enhancement, Improvement, Bugfix, Release) | Version | Status (development, implemented, tested) | Responsible | Reason for the modification | Items of the modification | Impact for (end-)customer | Comment | location in model/source |
|------------|--|---|---------|--|-------------|-----------------------------|---------------------------|---------------------------|---------|-----------------------------|
| xxxx-xx-xx | | Release | 0.99 | tested | NSt | | | | | |

For questions please contact:

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