

**ACT20M**  
**ACT20M-RTI-AO-S**
**Weidmüller Interface GmbH & Co. KG**

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**ACT20M-RTI-AO-S**

Configurable signal converter for PT100, 2-, 3-, 4-wire measurement.

The 6.1 mm wide ACT20M-RTI-AO-S signal converter with external power supply for converting and isolating RTD temperature signals.

Input and output parameters as well as a fast conversion time of 30 ms or 300 ms can be configured via DIP switch. The ACT20M temperature converter detects sensor errors (short-circuit, cable break) and issues corresponding NAMUR signal limits at the output (configurable upscale/downscale).

The input/output channel and the power supply are completely galvanically isolated with 2.5 kV.

The ACT20M product family features high accuracy of < 0.05% of the measurement range, a large temperature range of -25°C (0°C)...+70°C, outstanding EMC characteristics and international approvals (cULus, ATEX Zone2, FM Div2, GL, DNV). This permits use around the globe in a wide range of applications. The power supply can be installed easily and quickly via the CH20M rail bus. The power is supplied via any ACT20M module (up to 10 devices) or a separate ACT20 supply module (up to 200 devices).

**General ordering data**

|            |                                                                              |
|------------|------------------------------------------------------------------------------|
| Type       | ACT20M-RTI-AO-S                                                              |
| Order No.  | <a href="#">1375510000</a>                                                   |
| Version    | Temperature converter, 2-/3-/4- wire RTD, 3-way isolator, 24 V DC $\pm$ 30 % |
| GTIN (EAN) | 4050118259667                                                                |
| Qty.       | 1 pc(s).                                                                     |

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**Technical data**
**Dimensions and weights**

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Width      | 6.1 mm   | Width (inches)  | 0.24 inch  |
| Height     | 112.5 mm | Height (inches) | 4.429 inch |
| Depth      | 114.3 mm | Depth (inches)  | 4.5 inch   |
| Net weight | 89 g     |                 |            |

**Temperatures**

|                     |                       |                       |                |
|---------------------|-----------------------|-----------------------|----------------|
| Humidity            | 95 %, no condensation | Operating temperature |                |
| Ambient temperature | -25 °C...+70 °C       | Storage temperature   | -40 °C...85 °C |

**Probability of failure**

|      |           |
|------|-----------|
| MTBF | 152 Years |
|------|-----------|

**Input**

|                         |                                                 |                                          |                          |
|-------------------------|-------------------------------------------------|------------------------------------------|--------------------------|
| Sensor                  | PT100 / 2-/3-/4-wire                            | Influence of the sensor cable resistance | < 0.002 Ω/Ω (@ 3/4-wire) |
| Input measurement range | PT100 -200...+850 °C                            | Line resistance in measuring circuit     | ≤ 50 Ω                   |
| Temperature input range | Configurable, min. measurement range 10°C (RTD) |                                          |                          |

**Output**

|                        |                                     |                        |                                                           |
|------------------------|-------------------------------------|------------------------|-----------------------------------------------------------|
| Number of outputs      | 1                                   | Output signal limit    | < 4 mA (average), < 60 mA (pulse current), low duty cycle |
| Output voltage, note   | adjustable, 0(1)...5 V, 0(2)...10 V | Output current         | adjustable, 0...20 mA, 4...20 mA                          |
| Wire break detection   | 3.5 mA / 23 mA / none               | load impedance voltage | ≥ 10 kΩ                                                   |
| load impedance current | ≤ 600 Ω                             |                        |                                                           |

**General data**

|                    |                                                                                 |                         |                                                    |
|--------------------|---------------------------------------------------------------------------------|-------------------------|----------------------------------------------------|
| Accuracy           | absolute accuracy: < ±0.05 % of the measurement range, Basic accuracy: < ±0.1°C | Configuration           | DIP switch                                         |
| Galvanic isolation | 3-way isolator                                                                  | Mounting rail           | TS 35                                              |
| Power consumption  | 0.7 W                                                                           | Step response time      | ≤ 30 ms, < 300 ms                                  |
| Supply voltage     | 24 V DC ± 30 %                                                                  | Temperature coefficient | ≤ 0.01 % of the measurement range/°C or 0.02 °C/°C |
| Type of connection | Screw connection                                                                |                         |                                                    |

**Insulation coordination**

|                        |                                |                    |                |
|------------------------|--------------------------------|--------------------|----------------|
| EMC standards          | IEC 61326-1, NE 21             | Galvanic isolation | 3-way isolator |
| Insulation voltage     | 2.5 kV <sub>eff</sub> / 1 min. | Pollution severity | 2              |
| Rated voltage          | 300 V <sub>eff</sub>           | Standards          | IEC 61010-1    |
| Surge voltage category | II                             |                    |                |

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**Technical data**
**Connection data**

|                                                      |                     |                                                      |                     |
|------------------------------------------------------|---------------------|------------------------------------------------------|---------------------|
| Type of connection                                   | Screw connection    | Clamping range, rated connection                     | 2.5 mm <sup>2</sup> |
| Clamping range, rated connection, min.               | 0.5 mm <sup>2</sup> | Clamping range, rated connection, max.               | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded, min. | 0.2 mm <sup>2</sup> | Wire connection cross section, finely stranded, max. | 2.5 mm <sup>2</sup> |

**Rated data UL**

|                |             |
|----------------|-------------|
| UL certificate | E337701.pdf |
|----------------|-------------|

**Ratings IECEx/ATEX/cUL**

|                        |                 |                         |                  |
|------------------------|-----------------|-------------------------|------------------|
| Certificate No. (ATEX) | KEMA10ATEX0183X | Certificate No. (IECEX) | IECEXKEM10.0090X |
|------------------------|-----------------|-------------------------|------------------|

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 5.0   | EC002653    | ETIM 6.0   | EC002653    |
| eClass 6.2 | 27-21-01-20 | eClass 7.1 | 27-21-01-20 |
| eClass 8.1 | 27-21-01-20 | eClass 9.0 | 27-21-01-20 |

**Product information**

|                              |                                    |
|------------------------------|------------------------------------|
| Descriptive text accessories | DIN mounting rail, see accessories |
|------------------------------|------------------------------------|

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

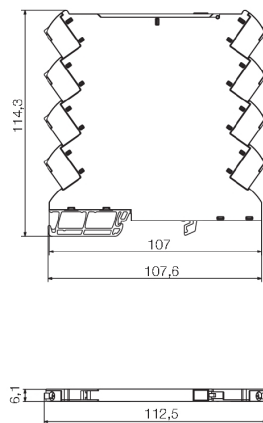
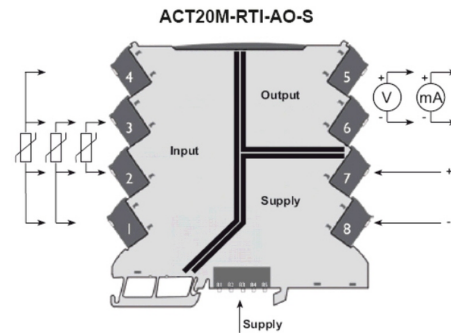
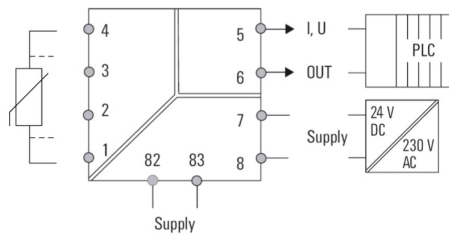
**Downloads**

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Package insert            | <a href="#">instruction sheet</a>             |
| Software                  | <a href="#">DIP switch configuration tool</a> |
| Declaration of Conformity | <a href="#">Declaration of Conformity.pdf</a> |

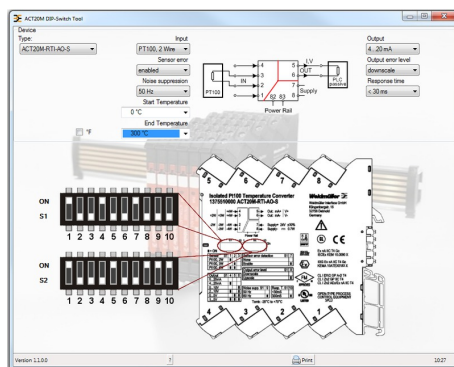
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# Drawings



Power supply via the rail bus



example for DIP switch setting  
(with ACT20M tool software)

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Let's connect.

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Representation abroad

without representation abroad

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