

Conductivity transmitter and probe BAMOCOP 336



Transmitter



Conductivity probes

- Measured at $2 \mu\text{S.cm}^{-1}$ to 20 mS.cm^{-1}
- 4-20 mA output
- 24 Vdc power supply
- DIN rail mounting

APPLICATIONS

Low-cost solution for conductivity measurement and transmission to a controller.

DESCRIPTION

The BAMOCOP 336, a conductivity transmitter without display, is designed for convenient installation on a DIN rail. It converts conductivity measurements into standard analog signals of 4-20 mA, 0-5 V, or 0-10 V. It therefore offers great flexibility for a wide range of applications. Thanks to its easy configuration, it is compatible with a wide range of probes with a coefficient of 1, 0.1, or 0.01.

For temperature compensation, the transmitter is equipped with a CTN input and uses a reference curve at 25°C . Automatic temperature compensation is performed within a range of 0 to 100°C .

BC-type conductivity probes, equipped with integrated CTNs, are designed for use with the BAMOCOP 336 transmitter.

Together, the BAMOCOP 336 and BC probes enable conductivity measurements across a wide range, making them the ideal choice for your conductivity measurement needs.

TECHNICAL FEATURES

Conductivity transmitter:

| | |
|-----------------------|--|
| Measurement input | $2 \mu\text{S.cm}^{-1} \dots 20 \text{ mS.cm}^{-1}$ |
| Power supply | 24 V DC $\pm 10\%$ regulated (standard) 12 V DC $\pm 10\%$ regulated (Option) |
| Output | 0(4)...20 mA / 0...5 / 10 V <i>Refer to the transmitter nameplate</i> |
| Consumption | max. 50 mA |
| Ambient temperature | 0...60 $^\circ\text{C}$ |
| Accuracy/Linearity | $\pm 1\%$ -2% at 20 mS.cm^{-1} |
| Temperature input | CTN |
| Reference temperature | 25°C |
| Protection rating | IP20 |
| Dimensions | 75 x 60 x 30 mm (P x H x l) |
| Weight | 70 g |

Combination of achievable measuring ranges according to probe coefficient:

| Cell coefficient | Jumper 1 | Jumper 2 | Jumper 3 |
|------------------|-------------------------|---------------------------|---------------------------|
| 1 | 20 mS.cm^{-1} | 2 mS.cm^{-1} | $200 \mu\text{S.cm}^{-1}$ |
| 0,1 | - | $200 \mu\text{S.cm}^{-1}$ | $20 \mu\text{S.cm}^{-1}$ |
| 0,01 | - | $20 \mu\text{S.cm}^{-1}$ | $2 \mu\text{S.cm}^{-1}$ |

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TECHNICAL FEATURES (Continued)

Conductivity probe

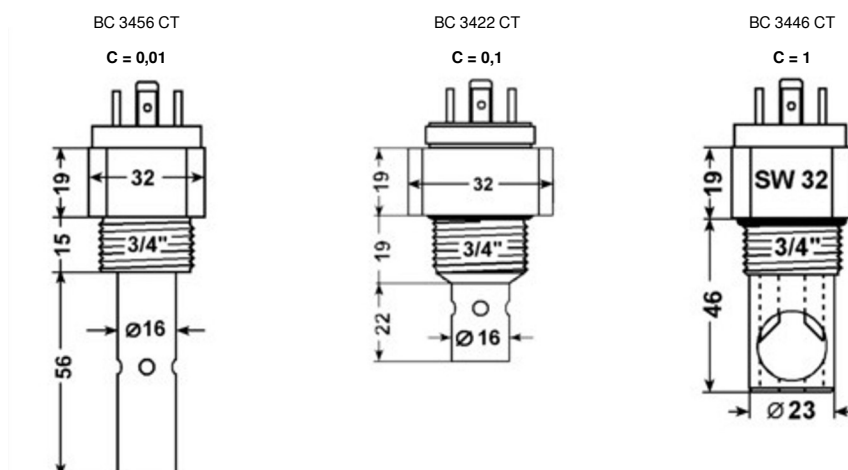
| | | | |
|-------------------------|---------------------------------|----------------------------|---------------------|
| Cell coefficient | 0,01 | 0,1 | 1 |
| Measurement scale | 0...2 / 20 / 50 μ S | 0...20 / 200 / 500 μ S | 0...0,2 / 2 / 20 mS |
| Accuracy | $\pm 2\%$ | | $\pm 5\%$ |
| Electrodes material | AISI 316 Ti | | Graphite |
| Head & Fitting material | PP (Option PVDF) | | |
| Seal material | EPDM | | Viton/FKM |
| Fitting size | 3/4" BSP thread | | |
| Maximum pressure | 16 bar | | |
| Maximum temperature | 50 °C (Option PVDF : 100 °C) | | |
| Electrical connection | DIN 43650 connector, 4-pin IP65 | | |

Note: The maximum length between the probe and the transmitter will depend on the cable. Please consult us.

CODE NUMBERS AND REFERENCES

| Code | Reference | Designation |
|----------------------------------|----------------|--|
| Conductivity transmitters | | |
| 336 320 | BAMOCOP 336-20 | BAMOCOP 24Vdc output 0-4/20mA |
| 336 310 | BAMOCOP 336-10 | BAMOCOP 24Vdc output 0-10V |
| 336 305 | BAMOCOP 336-05 | BAMOCOP 24Vdc output 0-5V |
| Conductivity probes | | |
| 336 410 | BC 3446 CT | PPH conductivity probe, 3/4" connection and CTN included, coefficient 1 |
| 336 411 | BC 3447 CT | PPH immersion conductivity probe LG1M, CTN included, coefficient 1 |
| 336 420 | BC 3422 CT | PPH conductivity probe, 3/4" connection and CTN included, coefficient 0.1 |
| 336 430 | BC 3456 CT | PPH conductivity probe, 3/4" connection and CTN included, coefficient 0.01 |
| Accessories | | |
| 336 104 | C4B cable | 4 x 0.34 mm ² PVC sheathed cable |

DIMENSIONS



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