

# Programmable Counter / Downcounter

## BCP 48



- Versatile and simple
- Dual back-lighted display:
  - Totalizer 8 digits
  - Batch counter 6 digits
- 2 presets with relay outputs
- 4 counting modes
- Sensor power supply: 12 ... 26 V DC
- Panel mounting, 48 x 48 mm, DIN

### DESCRIPTION

BCP 48 is a counter with outstanding performances. During its design, special attention has been paid to the comfort of use and the simplicity of its setting in function. Its back-lighted LCD display allows simultaneous display of:

- Current value (Top line with 7 mm high characters).
- And to choose between preset values P1 & P2, Total or auxiliary counter (Bottom line with 4 mm high characters).

Preset or changing a parameter is easy with a large 4-way key, to quickly select the desired digit and increment or decrement it. Selection of parameters (not protected) with access to end-user by programming. A batch cycle can be started or interrupted remotely.

### PRINCIPLE

BCP 48 will perform applications with our flow-rate meters FFG, MICROSTREAM, BAMOTUR, BAMOFLU and counters M. Through a conversion factor (divisor / multiplier) the frequency may be converted and displayed in volume (m<sup>3</sup> ; litre or else).

### TECHNICAL FEATURES

Main power supply	85 ... 265 V AC $\pm$ 10 % ; 50/60 Hz 12 ... 30 V DC; 12 ... V AC
Power supply to sensor	12 ... 26 V DC (60 mA max.)
Display	Back-lighted LCD, 2 lines
Digits	6 digits Totalizer: 8 digits
Height:	7 mm (higher line) 4 mm (lower line - presets)
Counter frequency	10 kHz max.
Input	PNP, NPN, Namur
Conversion factor	from 0.0001 up to 9 999.99
Impedance	3 k $\Omega$
Consumption	5 VA, 5 W
Relay outputs	2 N.O. or N.C., to set up
Switching power	150 VA / 250 V / 1 A
Safeguard	On EEPROM (10 years)
Protection	Front: IP 65
Temperature	0... +50 °C (operating) -20 ... +70 °C (storage)
Connections	2 Dismountable screw terminals
Mass	150 g

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**BCP 48**

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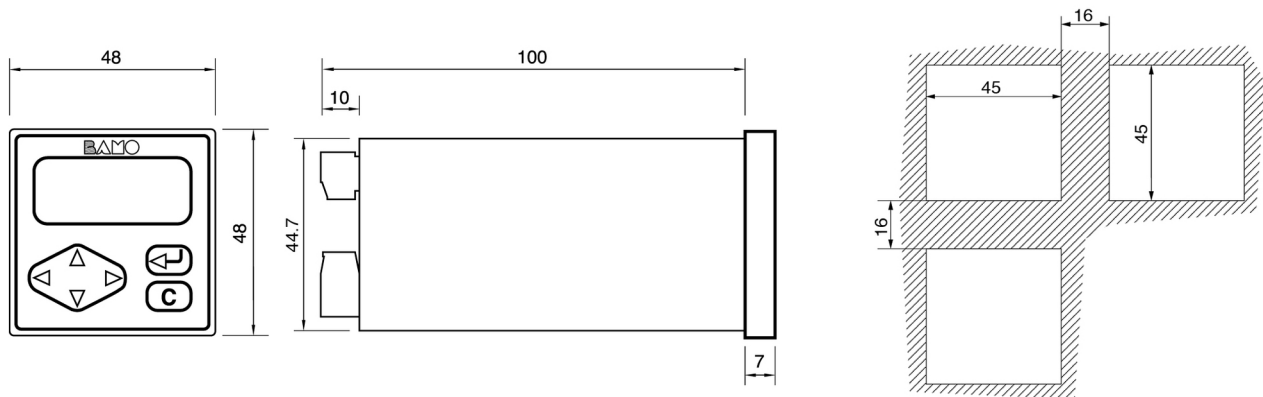
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## CODE NUMBERS AND REFERENCES

Code	Reference	Description
289 300	BCP 48 - 85...265 VAC	Case DIN 48 x 48 mm; Power 85 ... 265 V AC
289 301	BCP 48 - 12...30 V DC	Case DIN 48 x 48 mm; Power 12 ... 30 V DC

## DIMENSIONS



## COUNTING MODES AVAILABLE

BCP 48 has 4 counting modes.

### Unidirectional 1 way A:

Pulses sent to this input are counted

### Bidirectional 1 way A:

Pulses on input A are subtracted or summed, depending on whether the input B is activated or not.

### 2-way Differential A - B:

Pulses on input A are summed, that of input B are subtracted.

They can be transmitted simultaneously.

### 2-way Sum A + B:

Pulses from inputs A and B are cumulated.

## OPERATING CYCLES

BCP 48 offers 2 different operating cycles.

### Presets one after one:

The counter searches from the start for the preset P1 and then P2. In downcount mode, the order is reversed.

### Preset with floating preliminary:

In adding mode, this cycle is convenient to activate the preliminary output S1 for a fixed number of units in P1 before the final preselection P2.

It is unnecessary to recall P1 when P2 is modified.

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