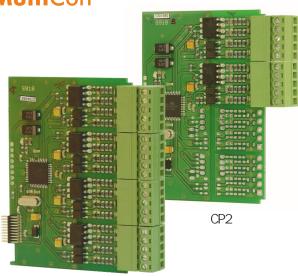
## **MultiCon**

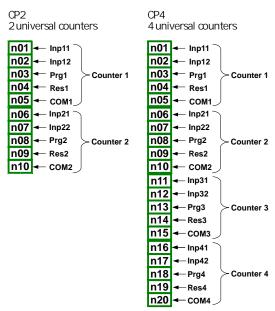


# Input modules - universal counters

- CP2: 2 isolated universal counters
- CP4: 4 isolated universal counters

The MultiCon can be also equipped with modules having 2 or 4 universal counters. Each counter can be configured independently and has two counting inputs (Inp[n]1, Inp[n]2), programmable input (Prog[n]), reset input (Res[n]), where "n" means counter number from 1 to 4.

# MODULE PIN ASSIGNMENT



#### Pin description:

Inp[n]1, Inp[n]2: counting inputs, pulse

Prg[n]: programmable inputs Res[n]: reset inputs COM[n]: common inputs

[n] = counter number

### The counter parameters are:

CP4

- Name read-only input name given by the device,
- -Unit read-only field which displays measurement unit: pulses,
- Low Limit value determining amount of pulses, below which in logical channel "Lo" state will be displayed,
- High Limit value determining amount of pulses, above which in logical channel "Hi" state will be displayed,
- Function mode specifies the counting mode: "A + B", "A B", "quad",
- Reset now button allowing user to manually reset the counter,
- Reset mode it allows to choose an additional resets for the counter, it has the following parameters: from log, channel or external,
- Reset source this parameter is visible when Reset mode is set as from log. channel or both, it contains a list of logical channels and the chosen one will reset the counter when its value is higher than O,
- Prog. inp. mode specifies counter reaction on higher than O value appearance on Prog. input,
- Filter sets filter on counter inputs which allows getting rid of negative effects of signal bounces; it has the following parameters: disable, 10 ÷ 90.

#### TECHNICAL DATA

	CP2	CP4
Number of inputs	2 counters (2 groups x 4 inputs, every group isolated from the other signals)	4 counters (4 groups x 4 inputs, every group isolated from the other signals)
CMC counting range Module hardware limitation	-4.5 <sup>15</sup> ÷ 4 <sup>15</sup> pulses -2 <sup>31</sup> ÷ 2 <sup>31</sup> pulses	-4.5 <sup>15</sup> ÷ 4 <sup>15</sup> pulses -2 <sup>31</sup> ÷ 2 <sup>31</sup> pulses
Input signals voltage levels	Uin   < 1V (logical LOW state)   Uin   > 10V (logical HIGH state)	Uin   < 1V (logical LOW state)   Uin   > 10V (logical HIGH state)
Max input voltage	30V	30V
Input current (typically)	14 mA @ 24V; 6 mA @ 10V	14 mA @ 24V; 6 mA @ 10V
Insulation strength	2kV	2kV
Max input frequency	5 kHz* (for quad signals); 10 kHz (for other signals)	5 kHz* (for quad signals); 10 kHz (for other signals)
Protection	50 mA auto-reset fuse	50 mA auto-reset fuse
Weight	35 g	42 g
Part number	M99-CP2-001	M99-CP4-001

<sup>\*</sup> CMC reads result every 100 ms

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