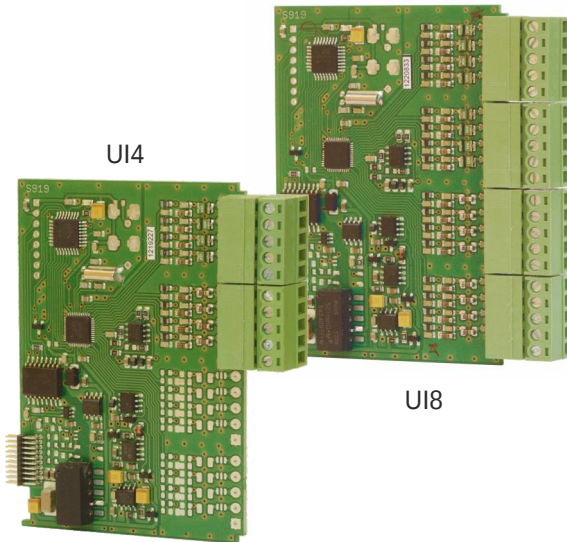


Input modules - voltage/current

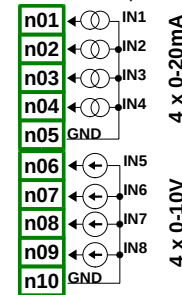
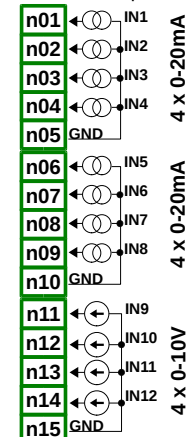
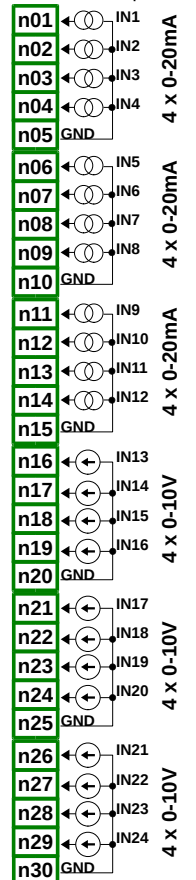
- UI4: 4 voltage + 4 current inputs
- UI8: 8 voltage + 8 current inputs
- UI12: 12 voltage + 12 current inputs

The MultiCon UI modules include 8, 16 or 24 voltage / current inputs, mixed where half of them are voltage and half are current.

To make sensor connection easier, inputs are grouped and all ground terminals are common but separated from power supply and other modules.



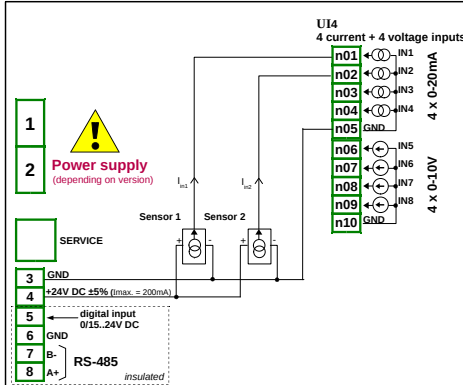
MODULE PIN ASSIGNMENT

UI4
4 voltage
+ 4 current inputsUI8
8 voltage
+ 8 current inputsUI12
12 voltage
+ 12 current inputs

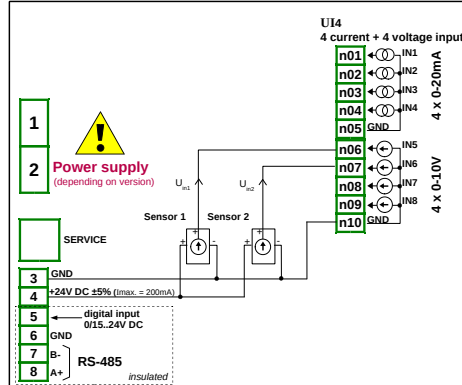
Voltage / current inputs parameters are:

- Name - read-only input name given by the device,
- Unit - read-only field which displays unit of measurement,
- Mode - defines measurement range,
- Low limit - defines measurement level below which in logical channel „Lo” state will be displayed,
- High limit - defines measurement level above which in logical channel „Hi” state will be displayed.

Connections for 3 - wire sensor (current)



Connections for 3 - wire sensor (voltage)



TECHNICAL DATA

	UI4	UI8	UI12
Number of inputs	4 x voltage + 4 x current	8 x voltage + 8 x current	12 x voltage + 12 x current
Measurement range	voltage: 0 ÷ 5V, 1 ÷ 5V, 0 ÷ 10V, 2 ÷ 10V; current: 0 ÷ 20 mA, 4 ÷ 20 mA	voltage: 0 ÷ 5V, 1 ÷ 5V, 0 ÷ 10V, 2 ÷ 10V; current: 0 ÷ 20 mA, 4 ÷ 20 mA	voltage: 0 ÷ 5V, 1 ÷ 5V, 0 ÷ 10V, 2 ÷ 10V; current: 0 ÷ 20 mA, 4 ÷ 20 mA
Hardware limitation	voltage: 0V ÷ 12V; current: 0 mA ÷ 24 mA	voltage: 0V ÷ 12V; current: 0 mA ÷ 24 mA	voltage: 0V ÷ 12V; current: 0 mA ÷ 24 mA
Hardware resolution	voltage: 1 mV; current: 1 µA	voltage: 1 mV; current: 1 µA	voltage: 1 mV; current: 1 µA
Precision	0.1% @ 25°C	0.1% @ 25°C	0.1% @ 25°C
Internal impedance	voltage: 50 kΩ; current: type 100 Ω	voltage: 50 kΩ; current: type 100 Ω	voltage: 50 kΩ; current: type 100 Ω
Protection	voltage: no; current: 50 mA, auto-reset fuse	voltage: no; current: 50 mA, auto-reset fuse	voltage: no; current: 50 mA, auto-reset fuse
Sampling period	10 ms, CMC reads modules every 100 ms	10 ms, CMC reads modules every 100 ms	10 ms, CMC reads modules every 100 ms
Weight	32 g	43 g	62 g
Part number	M99-UI4-001	M99-UI8-001	M141-UI12-001

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