

- UI4N8: 4 voltage + 4 current + 8 NTC inputs
- UI8N8: 8 voltage + 8 current + 8 NTC inputs

The MultiCon UIN modules include 16 or 24 voltage / current / NTC inputs, which allows to measure current, voltage, resistance and temperature (using NTC sensors). Inputs are gathered into groups to make connections easier. All ground terminals of a particular module are common, but separated from power supply and other modules. If it is necessary to make measurements with different ground potentials, several UIN modules have to be installed into MultiCon unit.

MODULE PIN ASSIGNMENT

UI4N8
4 voltage + 4 current
+ 8 NTC inputs

UI8N8
8 voltage + 8 current
+ 8 NTC inputs

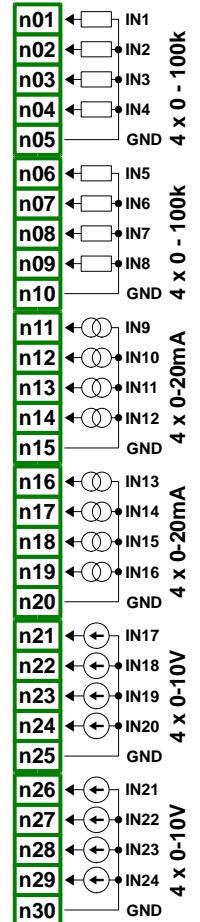
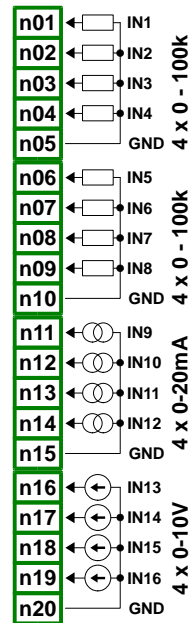
Voltage / current / NTC (temperature or resistance measurement) inputs parameters are:

- Name - read-only input name given by the device („mA“, „V“, „°C“ or „ “),
- 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.

Additionally for temperature mode:

NTC Equation - allows to choose method of entering thermistor characteristic. There are two possibilities: equation with Beta parameter and equation based on Steinhart-Hart coefficients.

When NTC inputs are used, it is recommended to use shielded wires and connect shield to GND connector on the module.



TECHNICAL DATA

	UI4N8	UI8N8
Number of inputs	4 x voltage + 4 x current + 8 x resistance NTC	8 x voltage + 8 x current + 8 x resistance NTC
Measurement range	voltage inputs: 0 ÷ 5V, 1 ÷ 5V, 0 ÷ 10V, 2 ÷ 10V current inputs: 0 ÷ 20mA, 4 ÷ 20mA resistance inputs: 0 ÷ 100k	voltage inputs: 0 ÷ 5V, 1 ÷ 5V, 0 ÷ 10V, 2 ÷ 10V current inputs: 0 ÷ 20mA, 4 ÷ 20mA resistance inputs: 0 ÷ 100k
Hardware limitation	voltage: 0 ÷ 12V; current: 0 ÷ 24mA; resistance: 0 ÷ 110k	voltage: 0 ÷ 12V; current: 0 ÷ 24mA; resistance: 0 ÷ 110k
Hardware resolution	voltage: 1 mV; current: 1 µA; resistance: 4	voltage: 1 mV; current: 1 µA; resistance: 4
Temp. stability	50 ppm/°C	50 ppm/°C
Precision	0,1% @ 25°C	0,1% @ 25°C
Internal impedance	voltage: 61 k ; current: 100 ; resistance: 121 k	voltage: 61 k ; current: 100 ; resistance: 121 k
Protection	voltage/NTC: protection resistor current: 50 mA, auto-reset fuse	voltage/NTC: protection resistor current: 50 mA, auto-reset fuse
Sampling period	100ms	100ms
Weight	43g	62g
Part number	M99-UI4N8-001	M141-UI8N8-001