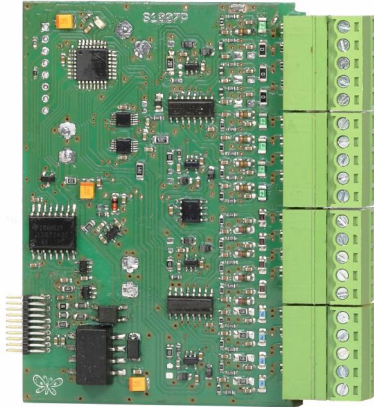




- UI4D8: 4 voltage + 4 current + 8 digital inputs
- UI8D8: 8 voltage + 8 current + 8 digital inputs

The MultiCon UID modules include 16 or 24 voltage / current / digital inputs, which allows to measure current and voltage and can be equipped with uninsulated digital inputs. 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 UID modules have to be installed into MultiCon unit.

MODULE PIN ASSIGNMENT

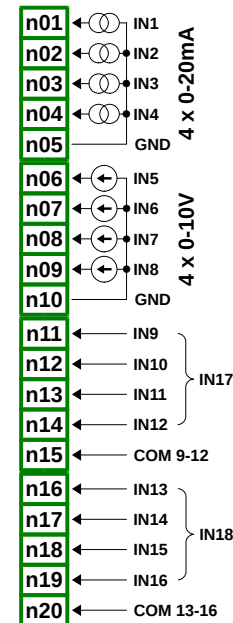
Voltage / current inputs parameters are:

- Name - read-only input name given by the device,
- Unit - read-only field which displays unit of measurement („mA”, „V”),
- 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.

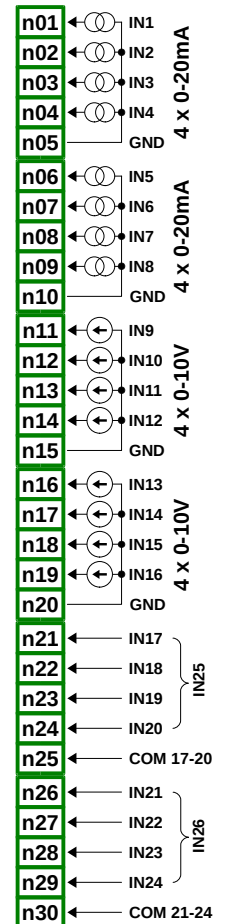
Digital inputs parameters are:

- Mode - defines input voltage ranges (TTL: „0” for $0 \div 0,8V$; „1” for $2 \div 5,5V$ and HTL: „0” for $0 \div 4,2V$; „1” for $11,5 \div 30V$),
- Filter time - defines minimal time that has to elapse from last input state change, if this change wants to be noticed. Each input has the possibility to sets its own Filter time, even if this input is part of another, different set of this parameter do not disturbs their work.

UI4D8
4 voltage + 4 current
+ 8 digital inputs



UI8D8
8 voltage + 8 current
+ 8 digital inputs



TECHNICAL DATA

	UI4D8	UI8D8
Number of inputs	4 x voltage + 4 x current + 8 x digital	8 x voltage + 8 x current + 8 x digital
Measurement range	voltage inputs: $0 \div 5V$, $1 \div 5V$, $0 \div 10V$, $2 \div 10V$ current inputs: $0 \div 20 \text{ mA}$, $4 \div 20 \text{ mA}$ digital inputs: TTL: Lo: $0 \div 0,8V$, Hi: $2 \div 5,5V$ HTL: Lo: $0 \div 4,2V$, Hi: $11,5 \div 30V$	voltage inputs: $0 \div 5V$, $1 \div 5V$, $0 \div 10V$, $2 \div 10V$ current inputs: $0 \div 20 \text{ mA}$, $4 \div 20 \text{ mA}$ digital inputs: TTL: Lo: $0 \div 0,8V$, Hi: $2 \div 5,5V$ HTL: Lo: $0 \div 4,2V$, Hi: $11,5 \div 30V$
Hardware limitation	voltage: $0 \div 12V$; current: $0 \div 24mA$; digital: $0 \div 32V$	voltage: $0 \div 12V$; current: $0 \div 24mA$; digital: $0 \div 32V$
Hardware resolution	voltage: 1 mV; current: 1 μA	voltage: 1 mV; current: 1 μA
Temp. stability	50 ppm/ $^{\circ}C$	50 ppm/ $^{\circ}C$
Precision	0,1% @ 25 $^{\circ}C$ (voltage/current), 2% @ 25 $^{\circ}C$ (digital)	0,1% @ 25 $^{\circ}C$ (voltage/current), 2% @ 25 $^{\circ}C$ (digital)
Internal impedance	voltage: 61 k Ω ; current: 100 Ω ; digital: 80 k Ω	voltage: 61 k Ω ; current: 100 Ω ; digital: 80 k Ω
Protection	voltage/digital: protection resistor current: 50 mA, auto-reset fuse	voltage/digital: protection resistor current: 50 mA, auto-reset fuse
Sampling period	100 ms	100 ms
Weight	43 g	62 g
Part number	M99-UI4D8-001	M141-UI8D8-001