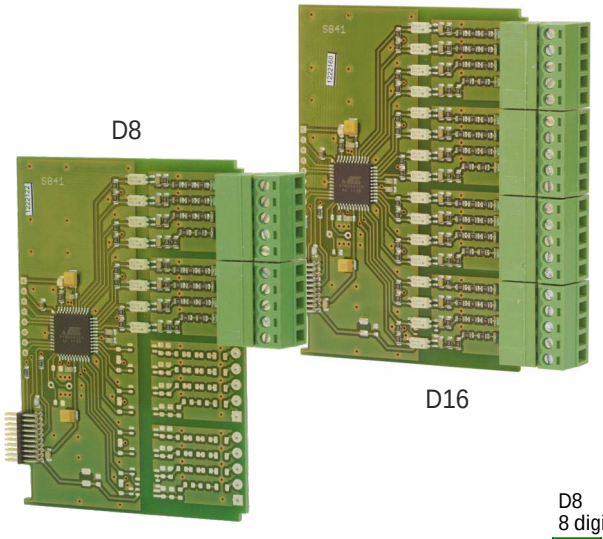
MultiCon

Input modules - digital

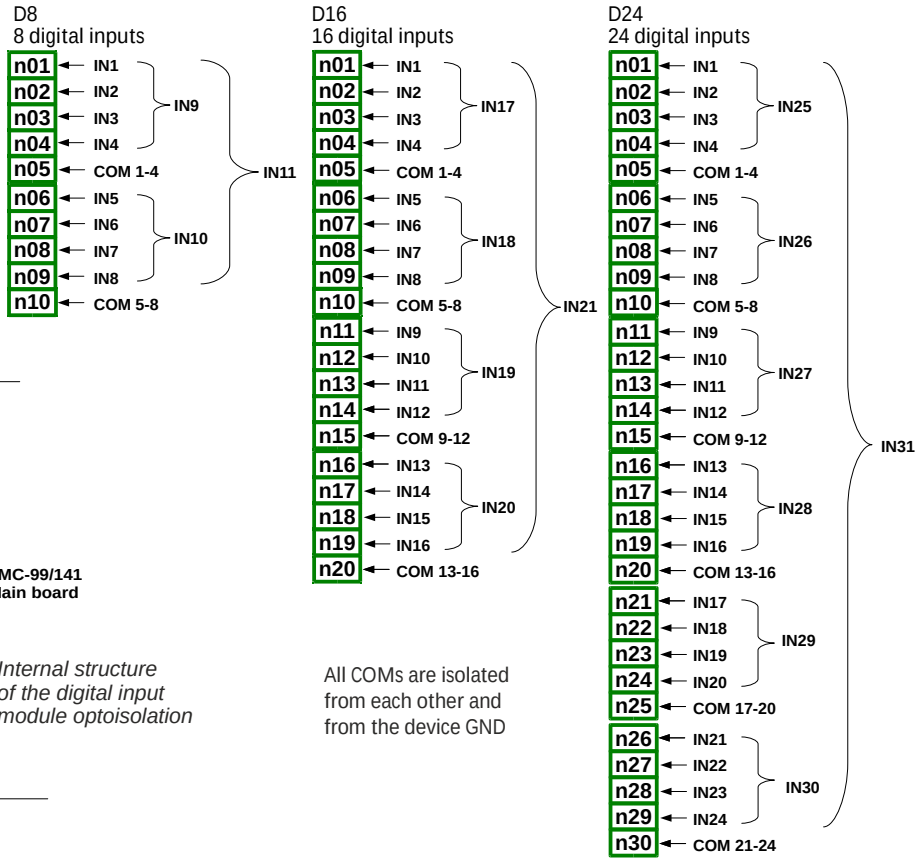
- D8: 8 isolated digital inputs
- D16: 16 isolated digital inputs
- D24: 24 isolated digital inputs

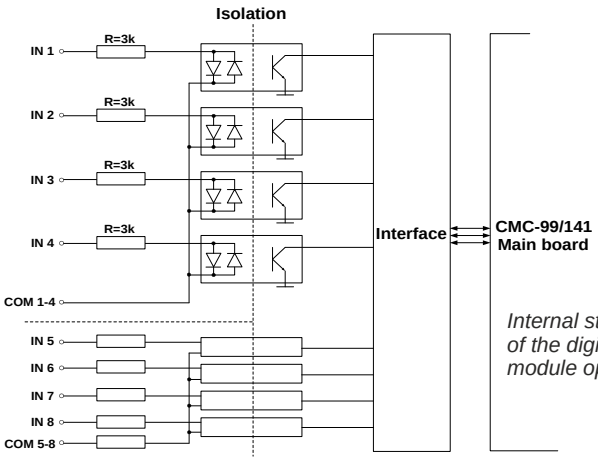


On customer's request, the MultiCon device can be equipped with modules having 8, 16 or 24 digital inputs. These inputs can be used singly, in groups of four or all inputs available in the module. The measurement results are presented in decimal system.

MODULE PIN ASSIGNMENT

D modules parameters are:
- Name - read-only input name given by the device,
- Filter time - defines minimal time that has to elapse from last input state change, if this change wants to be noticed.





Internal structure of the digital input module optoisolation

All COMs are isolated from each other and from the device GND

TECHNICAL DATA

	D8	D16	D24
Number of inputs	8 (2 groups of 4 inputs each, isolated from others signals)	16 (4 groups of 4 inputs each, isolated from others signals)	24 (6 groups of 4 inputs each, isolated from other signals)
Input signals voltage levels	| Uin | < 1V (logical LOW state) | Uin | > 4V (logical HIGH state)	| Uin | < 1V (logical LOW state) | Uin | > 4V (logical HIGH state)	| Uin | < 1V (logical LOW state) | Uin | > 4V (logical HIGH state)
Input voltage max.	30V	30V	30V
Input current (typically)	15 mA @24V; 5 mA @10V; 2 mA @5V	15 mA @24V; 5 mA @10V; 2 mA @5V	15 mA @24V; 5 mA @10V; 2 mA @5V
Insulation strength	500V	500V	500V
Sampling frequency	3 kHz *	3 kHz *	3 kHz *
Input signals representation	8 single bits: IN1-IN8; two 4-bit groups: IN9-IN10; 1 byte: IN11	16 single bits: IN1-IN16; four 4-bit groups: IN17-IN20; 1 integer: IN21	24 single bits: IN1-IN24; six 4-bit groups: IN25-IN30; 1 integer: IN31
Weight	30 g	40 g	58 g
Part number	M99-D8-001	M99-D16-001	M141-D24-001

** CMC reads state of inputs every 100 ms*