

- ETU: Ethernet + USB
- ACM: advanced communication module
- USB Host

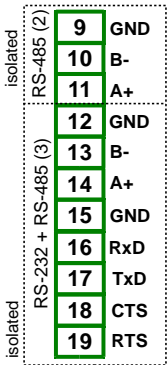
ETU communication module contains:

- Ethernet port, used for connection of the MultiCon with another devices or systems via LAN or WAN,
- USB port, used for connection of the external devices such as PC mouse, keyboard or USB flash drive.

Advanced communication module (ACM) contains:

- Ethernet port, used for connection of the MultiCon with another devices or systems via LAN or WAN,
- USB port, used for connection of the external devices such as PC mouse, keyboard or USB flash drive,
- additional RS-485 port and RS-232 port shared with third RS-485 port, used for communication with other devices using Modbus RTU protocol.

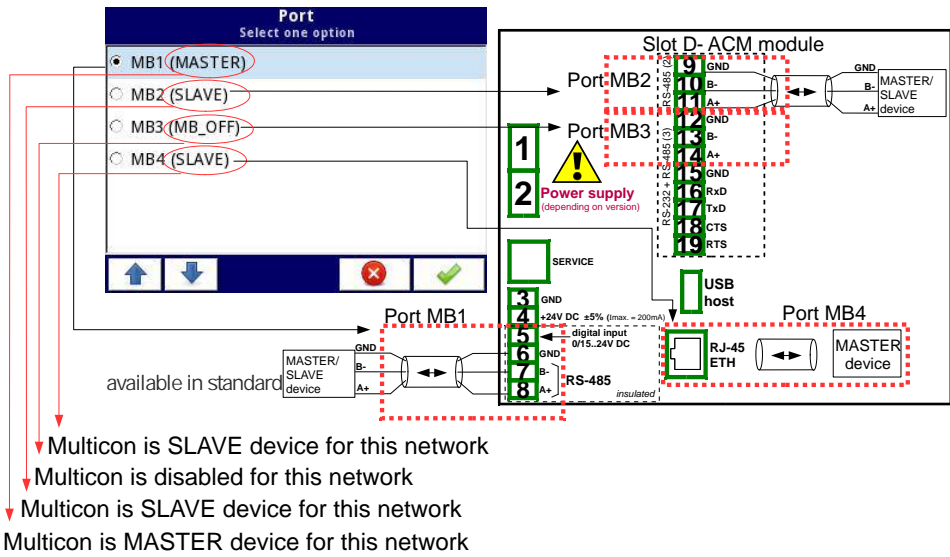
MODULE PIN ASSIGNMENT



Pin description:

9: ground for RS-485  
10, 11: data inputs for RS-485  
12: ground for RS-232  
13 ÷ 19: data inputs compatible with RS-232 standard

USB (back - host only)  
Port used for connection of the external devices such as PC mouse, keyboard or USB flash drive.



TECHNICAL DATA

	ETU	ACM	USB (back)
Number of inputs/outputs	2	4	1
Input/output type	USB Host, RJ-45 ETH	RS-485, RS-232+RS-485, USB Host, RJ-45 ETH	USB host
Hardware output limitation	USB host: max current output 100 mA	USB host: max current output 100 mA	current output 100 mA max.
Baudrate	RJ-45 ETH: 10 Mb/sec. USB host: 12 Mb/sec.	RS-485 [bit./sec.]: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 RJ-45 ETH: 10 Mb/sec. USB host: 12 Mb/sec.	12 Mb/sec.
Data format	-	RS-232/485: 8N1, 8N2, 8E1, 8E2, 8O1, 8O2	-
Immunity level for RJ 45	Burst (5/50ns, 5kHz): 1,5kV / 10 min (± polarization)	Burst (5/50ns, 5kHz): 1,5kV / 10 min (± polarization)	
Weight	49 g	66 g	37 g
Part number	M99-ETU-002	M99-ACM-002	M99-USB-001