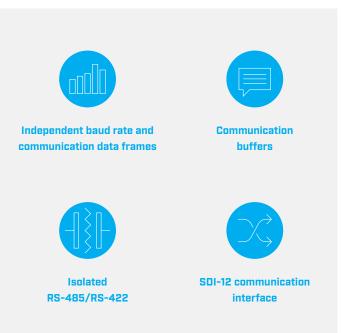# Multipass

Multipass developed and manufactured by MicroStep-MIS is designed for connecting industry buses RS-232, RS-485/RS-422, SDI-12 and USB.

Independent baud rate and communication data frames

Communication buffers

Isolated RS-485/RS-422

SDI-12 communication interface

Multipass can connect 4 standard industry buses - RS-232, RS-485/RS-422, USB 2.0 and SDI-12 1.3. USB 2.0 support implemented in the Multipass allows monitoring of the communication via standard USB port of a PC. Multipass supports SDI-12 bus in version 1.3 and acts as a master device.

Multipass is based on microprocessor, what allows buffering of the communication and support of different communication speeds and data frames. Activity of buses is shown by four LEDs. The convertor can be powered by the industry power supply or USB. Multipass is housed in DIN 43880 compatible enclosure.

Technical specifications

Power supply	5 V - 15 V
Power consumption	15 mA (@12 V)
Communication interfaces	• RS-232 baud rate: 300 to 230.400 bit/s • RS-485 / RS-422 baud rate: 300 to 230.400 bit/s • USB 2.0 • SDI-12 1.3

Mechanical specifications

Housing classification	IP 20
Housing material	polyamide
Type of connection	terminal block, mini USB B
Dimensions (h x w x d)	98 x 17.5 x 57 mm
Weight	48 g

Environmental specifications

Operating temperature range	-40 °C to +85 °C
Humidity (non-condensing)	0 - 100 %