



IMP6000

M-Bus Level
Converter to RS232,
USB Ethernet



The level converter IMP6000 is an interface between M-bus meters and reader systems. You can connect to application software via RS232, USB or Ethernet. M-Bus output is capable connect up to 250 1U devices depending on IMP6000 version. IMP6000 conforms to EN 13757-3 and you will read data of connected devices by standard SND_NKE and REQ_UD2 commands. You can use SV Technics M-Bus Explorer Ten application for simple M-Bus reading.

Basic Informations

- Connects up to 250 M-Bus 1U devices to various PC interfaces (1U loads 1,5 mA)
- PC interfaces RS232, USB, Ethernet (on order)
- Supply voltage 20 up to 35 V AC or DC
- Insulated power vs M-Bus and all interfaces
- Insulation voltage 500 V
- For the setup and Control IMP6000 you can use M-bus Explorer Ten, which is for purchasing on order



Ordering Specifications

IMP6000S

up to 125 M-Bus devices, RS232, USB

IMP6000L

up to 250 M-Bus devices, RS232, USB

IMP6000SE

up to 125 M-Bus devices, RS232, USB, Ethernet

IMP6000LE

up to 250 M-Bus devices, RS232, USB, Ethernet

Technical Specifications

Electrical Connections

Terminal block for supply voltage, RS232, M-Bus port	Screw terminal 0-4 mm ²
USB port	type B
Ethernet port	RJ45
Supply voltage	20 up to 35V AC, 50/60Hz, 20 up to 35V DC
Power consumption (max)	<15W for solution with Ethernet, S type <25W for solution with Ethernet, L type

Environmental Specifications

Operating temperature	-20°C up to +55°C
Operating humidity	5% up to 90% Rh non-condensing
Usage environment	Indoors
Storage temperature	-40 °C to +85 °C

Approvals

EMC	EN 55032 ed. 2:2017, class B RS232 and USB, class A Ethernet EN 55024 ed. 2:2011 + A1:2016 level 2
M-Bus interface	EN 13757-2:2018

M-Bus Output

Type S	Up to 125 1U devices
Type L	Up to 250 1U devices
Baudrate	300 up to 9600 bps, no setting required for RS232. Must be set for Ethernet.
Recommended cable	J-Y(St)Y 1 × 2 × 0,8 (conductor diameter)

Mechanics

Casing material	Polycarbonate
Protection class	IP 30
Dimensions (w × h × d)	106.3 × 90,5 × 62 mm
Mounting	DIN rail 35mm (EN 60715)
Weight	200g