

## MBUS 60

### RS232 TO MBUS LEVEL CONVERTER

- ▶ RS232 to MBus level conversion
- ▶ Maximum 60 MBus slaves
- ▶ Baud Rate: 300 to 19200 bps
- ▶ RS232, MBus, Power Supply opto-isolation
- ▶ Over-current and short-circuit protection on the MBus
- ▶ Can operate as **MBus signal booster / Repeater**
- ▶ LED display for power, overload and data transmission
- ▶ Power supply: 20 ~ 35 Vdc or 20 ~ 24 Vac.
- ▶ Rail mounting



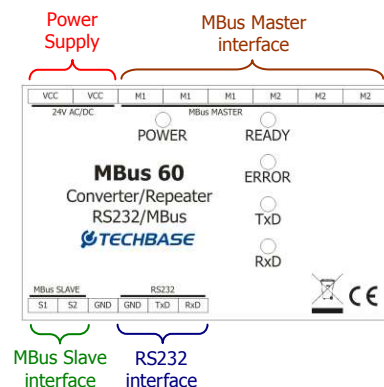
MBus 60

### APPLICATION

MBus 60 converter is a transparent converter RS232 – Mbus interface. On MBus side it works as MBus master and enable to connect maximum 60 standard MBus receivers (slaves). Additionally thanks to embedded MBus Slave input MBus 60 can operate as MBus signal buster. It can be used with all devices equipped with MBus interface like: heating energy meters, electric energy meters, data recorders and many others with MBus interface. MBus 60 can successfully replace PW3, PW20, PW60 Relay M-Bus level converter, any other M-Bus master converter or M-Bus signal buster.

MBus 60 converter is equipped with TxD, RxD, MBus overload (ERROR), MBus READY and POWER Supply LED indicators. There are screw terminal block connectors for all interfaces and power supply i.e. MBus Master, MBus Slave and RS232.

Below picture presents connection diagram of MBus 60 converter:



**TECHNICAL PARAMETERS****Type: MBus 60****Hardware:**

- Transparent conversion from RS232 to MBus master.
- MBus slave input - can operate as MBus signal booster
- LED Indicators: Tx, Rx, MBus overload, power supply.

**Interfaces:**

- Baud Rate: 300 ~ 19200 bps.
- RS232: TxD, RxD, GND.
- MBus Master: M1, M2.  
Maximum M-Bus receivers: 60 (MBus slave).  
Surge Protection / Over Voltage Protection M-Bus Interface : 43V 600W/1ms.
- MBus Slave: S1, S2.
- Opto Isolation:  
RS232~MBus – 100 V AC/DC.  
RS232~Power Supply – 100 V AC/DC.  
Power supply~MBus – 100 V AC/DC.

**Operating Conditions:**

- Power Input: 20 ~ 35 Vdc, 20 ~ 24 Vac. Maximum power consumption: 12W.
- Operating temperature: 0 ~ 60°C.
- Storage temperature: -20 ~ 85°C.
- Humidity: 5 ~ 95%RH (without condensation).
- Dimensions: 70x90x65 mm (width x depth x height).

**Certification:**

- CE (EN 55022:1998 Class A, EN 61000-3-2:2000, EN 61000-3-3:1995, EN 55024:1998).