

RS-232 Isolator

MD-52

- ⌘ RS-232 repeater and isolator
 - Serial speed up to 115 200 kbit/s
 - Two RS-232 interface one DCE and one DTE
 - 9 pol D-sub alternately 9 or 5 pin screw terminal
- ⌘ Easy to install and use
 - Transparent communication
 - Purpose built DIN rail casing with integral clip
 - Plug and play
- ⌘ Designed for use in harsh industrial applications
 - AC or DC power options
 - Total galvanic isolation
 - Industrial EMC, shock and vibration approval
- ⌘ Secure connection between two RS-232 interfaces
 - Eliminates ground loop current
 - Duplicate the RS-232 distance
 - Full duplex and transmission of one control sig



The MD-52 is a RS-232 isolator allowing RS-232 systems to be connected where there is a need to isolate interfaces from each other. The serial interfaces are standard RS-232 configured as DCE and DTE creating a simple installation.

The RS-232 serial interface is connected through a standard 9 pol D-sub or terminal block with screw connectors. MD-52 is a plug and play unit and the communication is totally transparent.

The MD-52 is designed for use in heavy duty industrial applications. The different power options, galvanic isolation, guarantees communication in the worst environments. The MD-52 has been tested to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments.

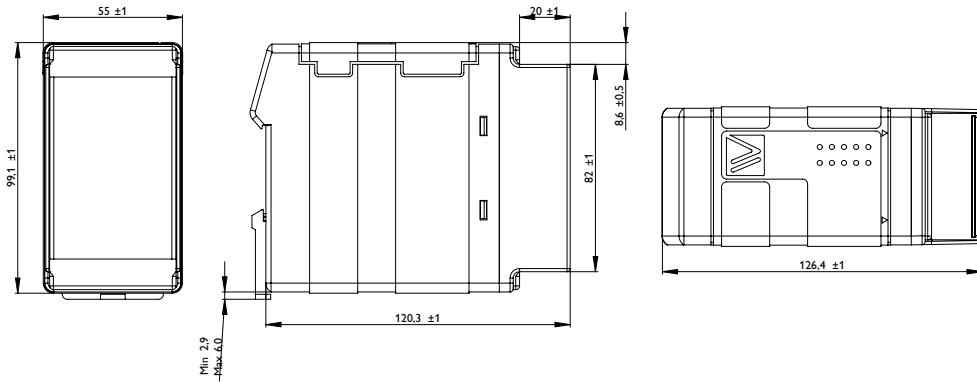
The design of the isolator makes MD-52 suitable for applications where there is a risk for ground loop currents or other electrical disturbances.

Ordering Information

| Art.no | Description |
|-----------|---|
| 3601-0001 | MD-52, RS-232 isolator; 115.2 kbit/s, DIN model, 12–36 VDC. |
| 3601-0003 | MD-52, RS-232 isolator; 115.2 kbit/s, DIN model, 36–55 VDC. |
| 3601-0101 | MD-52, RS-232 isolator; 115.2 kbit/s, DIN model, 230 VAC. |

Specifications MD-52

Dimensional drawing



Dimension W x H x D 55 x 100 x 132 mm (2.16 x 3.93 x 5.19 in)

Weight 0.5 kg

Degree of protection IP 20

Power

| Operating voltage | MD-52 DC | MD-52 36 – 55 DC | MD-52 AC |
|-------------------|-----------------|---------------------|-----------------|
| | | 12 – 36 VDC | 36 – 55 VDC |
| Rated current | 130 mA @ 12 VDC | 50 mA @ >36 VDC | 23 mA @ 230 VAC |

Interfaces

| | |
|----------------------------------|------------------------|
| RS-232 female | 1 x up to 115.2 kbit/s |
| RS-232 male | 1 x up to 115.2 kbit/s |
| RS-232 detachable screw terminal | 2 x up to 115.2 kbit/s |

Temperature

| | |
|-----------|--|
| Operating | AC: –25°C to 60°C (–13 to 140°F) DC: –25°C to 70°C (–13 to 158°F) |
|-----------|--|

Agency approvals and standards compliance

| | |
|--------|--|
| EMC | SS-EN 50081-1/SS-EN 55022 (1992): Class B |
| | SS-EN 50082-2/SS-EN 61000-4-2 (1995): 4 kV CD, 8 kV AD |
| | SS-EN 50082-2/SS-EN 61000-4-4 (1995): 4 kV power; 2 kV signals |
| | SS-EN 50082-1/SS-EN 61000-4-3 (1996): 3 V/m |
| | SS-EN 50082-1/SS-ENV 50204 (1995): 3 V/m |
| | SS-EN 50082-1/SS-EN 61000-4-6 (1996) 3 V/m |
| Safety | EN 60950:1992/A1,1993;A2,1993;A3,1995 |