

USB to RS232 / RS485 / RS422 Converter

- Compatible with USB 2.0
- Input : USB 2.0 Protocol
- Output : RS232 on DB9 Male connector compatible to PC RS485/RS422 on terminal block.
- Communication Speed : 300bps to 230Kbps.
- Auto direction control for RS485-2W data transmission.
- Cable: USB 2.0 type A to type B cable.
- Galvanic Isolation of 1.5kV
- RS232/RS485 line protection: +/- 15kV ESD.
- LED Indication for Transmit Receive signals.
- Input power from USB port, no external power required.
- 2M enclosure with DIN Rail mounting.
- Virtual COM port USB Drivers provided for Win XP, Vista, Win7, Win8





Ordering Information

| Cat. No. | Description |
|----------|--|
| 28A11A0 | USB to RS232 / RS485 / RS422 Converter |
| 28D33B0 | Accessory for Converter 28A11A0, USB 2.0 Cable, Type A Male to B Male |
| 28NNN10 | Accessory for Converter 28A11A0, Software CD for Win XP, Vista, Win7, Win8 |

USB to RS232 / RS485 / RS422 Converter



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|-------------------------------------|--|
| Cat. No. | 28A11A0 |
| Parameters | |
| USB | |
| Version | USB Specification 2.0 compliant |
| Speed | 12 Mbps |
| Isolated Serial Interface | |
| RS232 | TX, RX, GND |
| RS485 | D+, D-, GND |
| RS422 | TX+, TX-, RX+, RX-, GND |
| Auto direction control for RS485-2W | |
| Serial line Protection | Internal 15kV ESD protection |
| Isolation | 1500 V Galvanic Isolation |
| Connector | RS232 - D Type 9 Pin Male Compatible with PC, RS485, RS422- Screw Terminals |
| LED Indication | TX, RX, Communication Mode Indication. |
| Power Requirements | USB BUS Powered |
| Operating Temperature | 0° C To + 60° C |
| Storage Temperature | -20° C To + 70° C |
| Humidity | 5% (Rh) to 95% (Rh) |
| Enclosure | Flame Retardant UL 94-V0 |
| Dimension (W x H x D) (in mm) | 36 X 90 X 52.3 |
| Weight (unpacked) Approx. | 100 g |
| Mounting | Base / DIN rail |
| Degree of Protection | IP 20 for Terminals, IP 40 for Enclosure |
| Certification |   |
| Function and Application | This converter allows serial devices on RS232/RS485/RS422 to systems using USB interface. It has galvanic isolation of 1500V between USB and Serial ports. It drives power from USB connector and does not need any power adapter. |

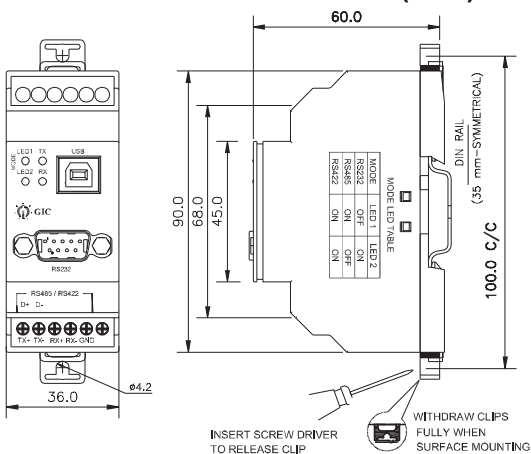
EMI / EMC

| | |
|----------------------------|---------------|
| Harmonic Current Emissions | IEC 61000-3-2 |
| ESD | IEC 61000-4-2 |
| Radiated Susceptibility | IEC 61000-4-3 |
| Electrical Fast Transients | IEC 61000-4-4 |
| Surges | IEC 61000-4-5 |
| Conducted Susceptibility | IEC 61000-4-6 |
| Conducted Emission | CISPR 14-1 |
| Radiated Emission | CISPR 14-1 |



Environmental

| | |
|----------------------|----------------|
| Cold Heat | IEC 60068-2-1 |
| Dry Heat | IEC 60068-2-2 |
| Vibration | IEC 60068-2-6 |
| Repetitive Shock | IEC 60068-2-27 |
| Non-Repetitive Shock | IEC 60068-2-27 |

MOUNTING DIMENSIONS (mm)



TERMINAL TORQUE & CAPACITY

| | |
|---|---|
|  Ø 3.5 | 0.54 N.m (6 Lb.in) |
|  | 1 x 2.5 mm ² Solid Wire/Stranded |
| AWG | 1 x 24 to 12 |