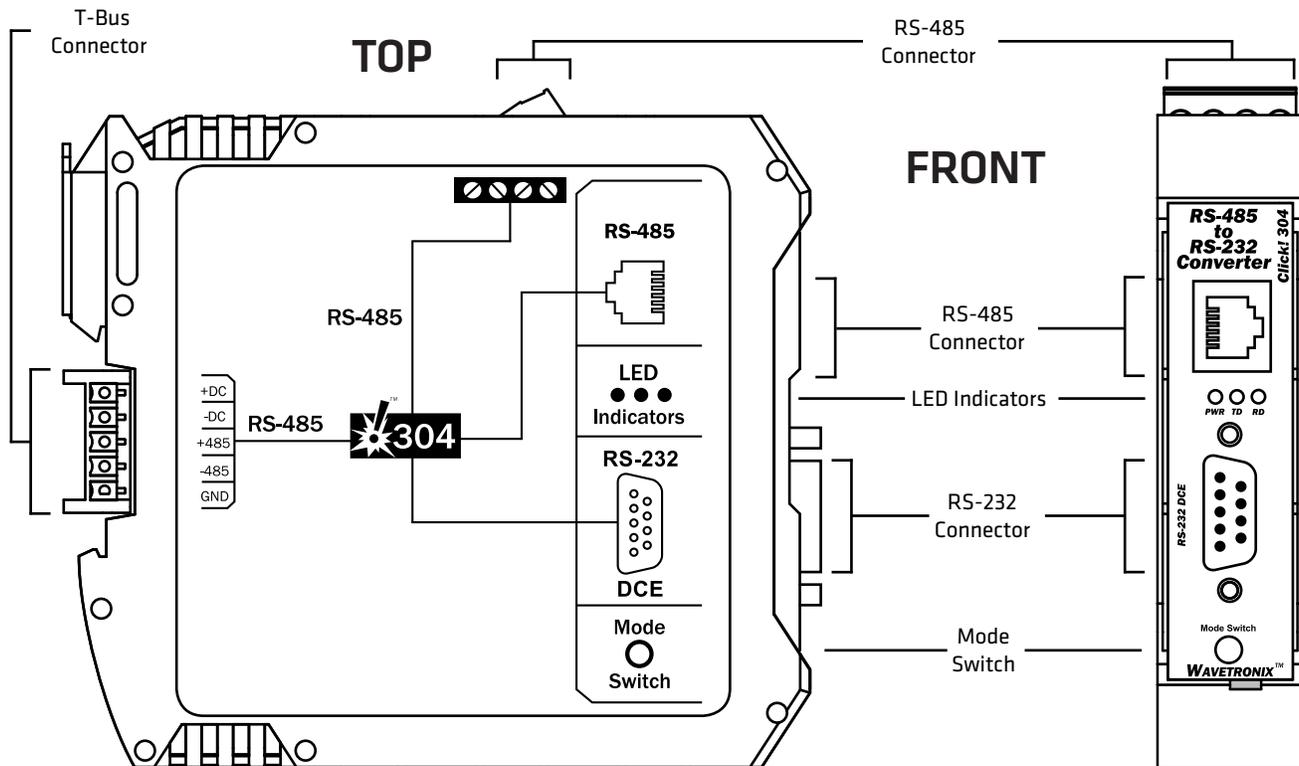


RS-232 to RS-485 Converter

The Click 304 converts half-duplex RS-232 communication to RS-485 communication and vice versa. It also auto-detects baud rates and features LEDs that light up when data is successfully transmitted or received.

Features

- Converts data between RS-232 and RS-485
- Mounts to a DIN rail for quick and easy installation
- Autobauds to serial port devices
- Meets NEMA TS2 1998 environmental specifications
- Conformal coated
- Remote upgradeable
- Pluggable screw terminals can be removed for prewiring and are red-keyed to minimize incorrect wiring
- Can be configured using Click Supervisor software
- Uses less than 1 W of power at 24 volts
- Push-button on the front of the device can reset to factory defaults or start autobaud process
- Activity-indicating LEDs show when the device has power and when it is transmitting and receiving data



Technical Specifications

Physical

- Weight: 0.2 lbs. (0.1 kg)
- Physical dimensions: 4.5 in. × 4 in. × 0.9 in. (11.4 cm x 10.2 cm x 2.3 cm)
- Ambient operating temp: -29°F to 165°F (-34°C to 74°C)
- Humidity: up to 95% RH

Mounting

- DIN rail-mountable
- Hot-swappable

Power

- Power supply voltage: 10 to 30 VDC
- Power consumption: 0.25 W

Connections

- Device has the following connection points:
 - Power: 5-position connector for connecting from the T-bus
 - RS-232: One pluggable screw terminal and a DB-9 connector
 - RS-485: 5-position connector for connecting from the T-bus as well as one pluggable screw terminal and an RJ-11 jack

Communication

- Converts RS-232 to RS-485 and vice versa

Baud Rates

- Supports the following baud rates:
 - 1200 bps
 - 2400 bps
 - 4800 bps
 - 9600 bps
 - 19200 bps
 - 38400 bps
 - 57600 bps
 - 115200 bps

Configuration Features

- Push-button on faceplate does the following:
 - Resets device to factory defaults
 - Autobauds device to match the baud rate of the attached serial device
- LEDs:
 - Red LED illuminates when device has power
 - Green LED (TD) illuminates when data is transmitted
 - Yellow LED (RD) illuminates when data is received

Ordering Information

Click 304 RS-232 to RS-485 converter
CLK-304

Wavetronix

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www.wavetronix.com

Pocket PC & PC Configuration Software

- Comes with Click Supervisor, configuration software with the following features:
 - Runs on both a Pocket PC and a Windows desktop or laptop PC (Windows 2000 and newer)
 - Configures serial communication settings including the serial baud rates
 - Can remotely and directly upgrade the device firmware to add new features to the device
 - Allows users to save a configuration to a file, and to open existing files and save to a device, allowing a common configuration to be easily programmed into many devices
 - Has customizable drivers that are stored as XML files that describe the graphical user interface for that driver

Remote Upgradeability

- Flash memory can be remotely upgraded to add functionality to the firmware when new features have been developed to improve the performance of the installation

NEMA TS2-1998 Testing

- Complies with the applicable standards stated in the NEMA TS2-1998 Standard
- Test results available for each of the following tests:
 - Shock pulses of 10g, 11 ms half sine wave
 - Vibration of .5 Grms up to 30 Hz
 - 300 V positive/negative pulses applied at one pulse per second at minimum and maximum DC supply voltage
 - Stored at -49°F (-45°C) for 24 hours
 - Stored at 185°F (85°C) for 24 hours
 - Operation at -29.2°F (-34°C) and 10.8 VDC
 - Operation at -29.2°F (-34°C) and 26.5 VDC
 - Operation at 165.2°F (74°C) and 26.5 VDC
 - Operation at 165.2°F (74°C) and 10.8 VDC

Testing

- Passes manufacturer's test before shipping

Extended Support

- Extended support options are available from Wavetronix; contact a Wavetronix representative for more information

Warranty

- One-year warranty against material and workmanship defect (see Click Warranty datasheet for complete details)