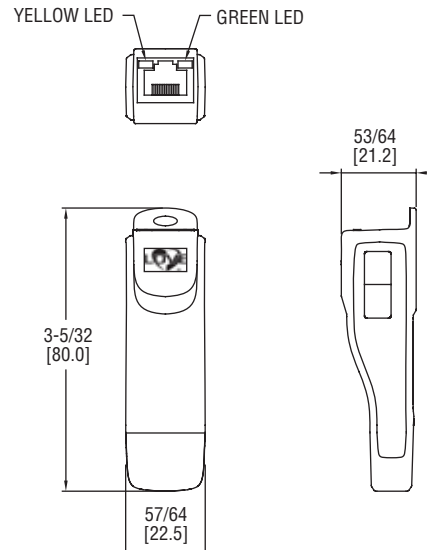




Model MN-1 Mini-Node Communication Signal Converter Specifications and Operating Instructions

Bulletin E-90-MN-1

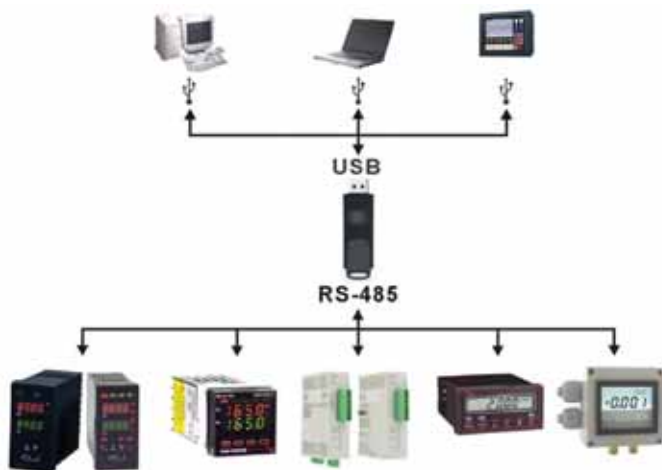


The **Model MN-1 Mini-Node Communication Signal Converter** is a low cost device that converts half duplex RS 485 serial communications signals into a signal that can be read by any computer with a USB port. The integral USB connector and RJ-45 connector reduces set up time by eliminating extra wiring. The Model MN-1 is powered via the USB connection which eliminates the need for an external power source. The compact size is great for field installation, control panels, and lab testing.

SPECIFICATIONS

- Power Requirements:** No external power required.
- Power Consumption:** 0.4 W.
- Isolated Voltage:** 3000 VDC.
- Input Impedance:** 96 kΩ.
- USB Connector:** A-Type (plug).
- RS-485 Connector:** RJ-45.
- Baud Rate:** 75, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.
- Compatibility:** Full compliance with USB V.2.0 specification.

APPLICATION



RJ-45 PIN



PIN	Signal Name
1	Reserved
2	Reserved
3	Reserved
4	SG+
5	SG-
6	Reserved
7	Reserved
8	Reserved

LED MODES

1. Green LED indicates unit is powered.
2. Yellow LED to indicate that data is being transferred.

USB DRIVER INSTALLATION

NOTE: Do NOT connect MN-1 to PC before extracting the driver file.

1. Insert the factory supplied CD into the CD drive of your computer. If the CD does not start automatically, click "Start", "Run" & type D:/autorun.exe then click "OK".
2. Follow the on screen instructions to prepare for installation of the driver.
3. A folder marked SiLabs should now appear in the PC's C drive.
4. Connect the MN-1 to PC and installation instructions will automatically appear.
5. Follow the on-screen instructions to complete the driver installation.

MAINTENANCE

Upon final installation of the Model MN-1 Mini-Node USB to RS 485 Converter, no routine maintenance is required. A periodic check of system calibration is recommended. The Model MN-1 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.