



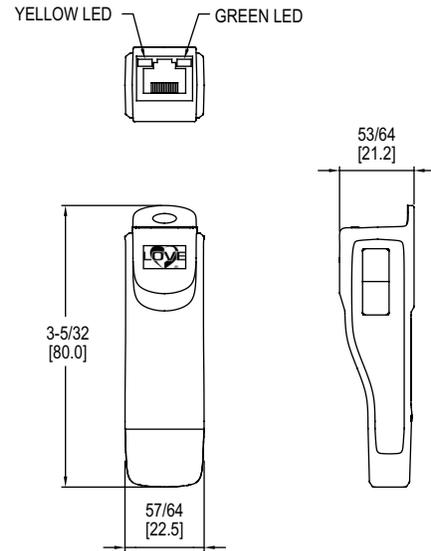
5011669500-MN00

Bulletin E-90-MN-1



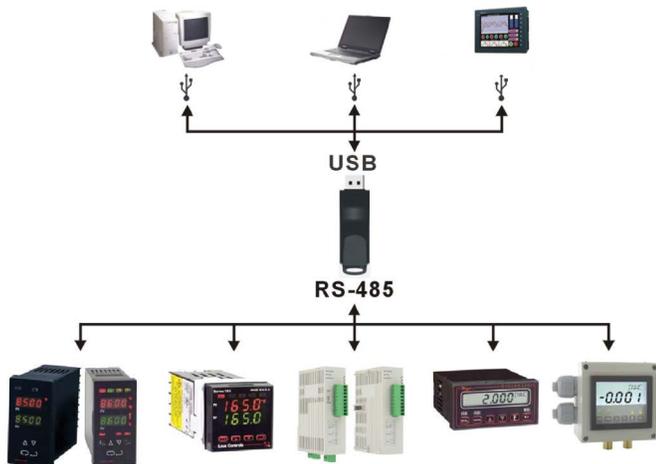
Model MN-1 Mini-Node Communication Signal Converter

Specifications - Installation and Operating Instructions



The **Model MN-1 Mini-Node™ Communication Signal Converter** is a economical 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 setup 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.

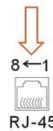
APPLICATION



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.
Compliance: CE.

RJ-45 PIN



PIN	Problem
1	Reserved
2	Reserved
3	Reserved
4	SG+ (Red)
5	SG- (Green)
6	Reserved
7	Reserved
8	Reserved

The "SG+" connects to the "+" and the "SG-" connects to the "-" of the RS-485 Device.

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:/Drivers.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.
5. The PC should automatically recognize that new hardware has been found. If not, add hardware can be found in the control panel.
6. Follow on screen instructions for assigning USB driver to the MN-1.
7. Repeat steps 5 and 6 for assigning RS-485 Driver to the MN-1.
8. Open the system folder in the control panel.
9. Click on hardware tab.
10. Open the device manager.
11. Double click on ports.
12. Verify that USB to UART Bridge Controller appears.
13. The Driver installation is complete.

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). Contact returns@dwyermail.com and provide a brief description of the problem plus any relevant application notes. You will receive a return goods authorization number along with next steps.