



Series
350

Mother Node™ Communication Signal Converter

Converts RS-232 to RS-485, Isolates & Repeats

The image shows a photograph of the Mother Node Platinum converter unit on the left and a technical drawing of its dimensions on the right. The unit is a rectangular box with a white label. The label includes the following text: "Mother Node™ Platinum", "RS-232 to RS-485 Isolatory Converter", "RS-485 to RS-485 Isolatory Repeater", "Factory set for conversion. To set as repeater, remove power, open cover, move J5 jumper from A to B, and replace cover.", and "Love Controls Div., Dwyer Instruments, Inc. P.O. Box 306, Michigan City, IN 46361 (219) 879-8000 • Fax (219) 872-8057". The technical drawing shows a top view of the unit with dimensions A, B, C, and D. Dimension A is the total width, B is the height, C is the width of the right-side section, and D is the width of the main body section.

| Model | A | B | C | D |
|----------|------------------|-----------------|-----------------|------------------|
| Silver | 109.5 (4.312) | 61.9 (2.437) | 61.9 (2.437) | 84.1 (3.312) |
| Gold | 139.7 (5.500) | 84.1 (3.312) | 34.9 (1.375) | 114.3 (4.500) |
| Platinum | 188.1 (6.562) | 98.4 (3.875) | 31.8 (1.250) | 139.7 (5.500) |

The Mother Node™ Communication Signal Converter line of RS-232 to RS-485 converters offers an easy way to use virtually any PC to communicate with half duplex RS-485 devices. Complicated hand-shaking issues are eliminated with these easy to use converters. The Mother Node™ converters come in three levels of sophistication to offer the exact combination of features you need. The Mother Node™ Silver Converter is a low cost device that converts signals at baud rates to 19.2 KBaud. Installation is simple, just connect the two RS-485 wires, the quick connect RS-232 cable, and the power transformer. No additional connections or settings are required. The Mother Node™ Gold Converter adds optical isolation and an additional quick connect (RJ-11) RS-485 output. The Mother Node™ Platinum Converter adds the ability to operate as either a converter or a RS-485 repeater. In repeater mode the RS-485 standard of 32 devices and 1800m (6000 ft.) of cable run can be increased. In place of the 32nd device on the line, the Mother Node™ Platinum Converter reforms and repeats the wave forms to add an additional 32 devices and 1800m (6000 ft.) of cable. When used with Love Controls products with Option 992, you can address up to 1020 devices on a single port.

FEATURES

- Converts RS-232 Signals to RS-485
- Connects Half-duplex Devices to Full Duplex Hosts
- Transmission Speeds to 19.2 KBaud
- Available with 1500V Optical Isolation
- Operates on 12 VDC
- Available with 120 VAC Adaptor
- Available Repeater Allows Expansion of RS-485 Beyond Standard 32 Devices and 1800 m (6000 ft)

Process Control

| Model | Description | Isolator | Power Transformer | Connector |
|--------|--|----------|-------------------|-----------|
| 351-9 | Mother Node™ Silver RS-232 to RS-485 Converter | | • | DB9F |
| 351-9N | Mother Node™ Silver RS-232 to RS-485 Converter | | | DB9F |
| 352-9 | Mother Node™ Gold RS-232 to RS-485 Converter | • | • | DB9F |
| 352-9N | Mother Node™ Gold RS-232 to RS-485 Converter | • | | DB9F |