

## RTU Input and Output Option Boards

Expand the monitoring and remote control capabilities of Mission M110 and M800 Series Remote Terminal Units (RTU) with additional inputs and outputs. One option board can be connected to each RTU with the included ribbon cable. Order the option board factory installed and tested on the RTU, or add it in the field within minutes.

### Eight Additional Digital Inputs

Expand the digital input capabilities from eight to 16 inputs for additional alarming and reporting possibilities. The non-supervised inputs (no end-of-line resistor required) wire to dry-switch sensors.

### Four Additional Analog Inputs

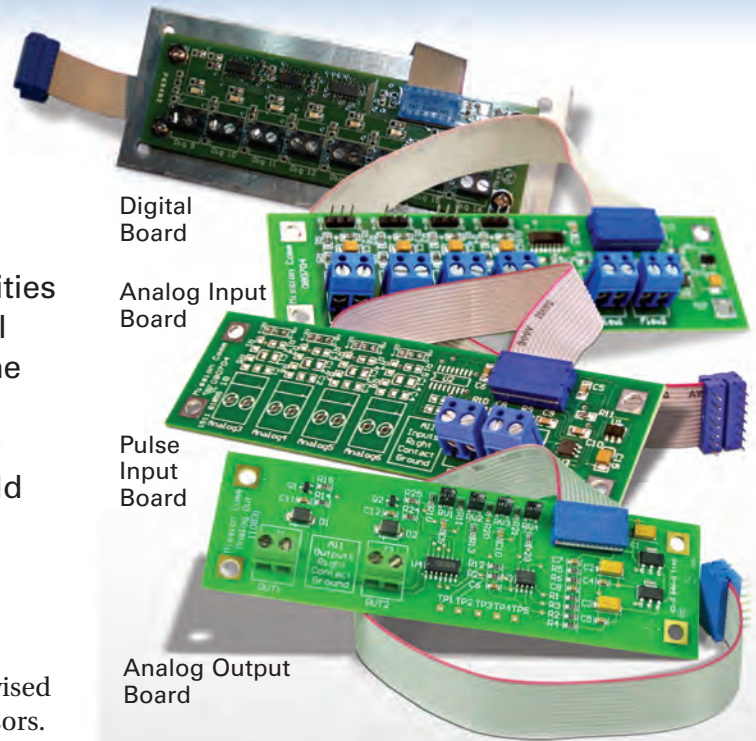
Analog inputs are used with transducers and sensors to monitor levels, pressure, chlorine, turbidity and more. Add four analog inputs and two pulse counting inputs (see description below) with the Analog Input Option Board. Pair it with an M800 RTU to receive real-time alarms and trending data, or use it with an M110 RTU to analyze analog values hourly.

### Two Pulse Counting Inputs

Use the Pulse Input Option Board with rain tipping buckets and pulse-based flow meters for rainfall monitoring and water metering. Pulse inputs used on solar RTUs accumulate pulse counts with ultra-low power even when the RTU is in hibernate mode. Pulse channels are available on a standalone option board or with analog inputs. Receive two minute updates when used with an M800 RTU, 15 minute updates when used with an M110 RTU, daily totals, reports, graphs and spreadsheet downloads.

### Two Analog Output Channels

Automatically or manually operate remote variable position water valves, doser pumps and variable frequency drives (VFD) with the Analog Output Option Board. The 4-20 mA analog output channels are available on a standalone option board or with pulse channel inputs.



Digital Board

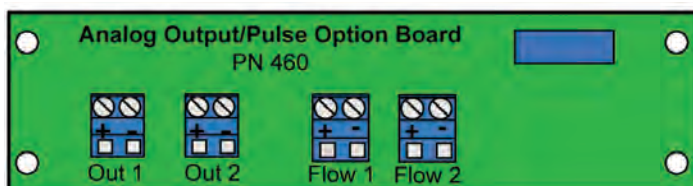
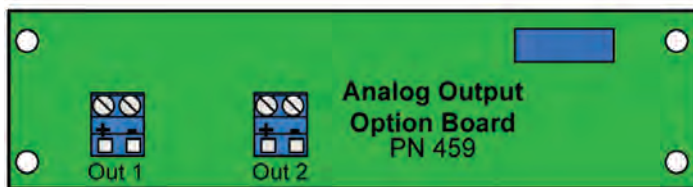
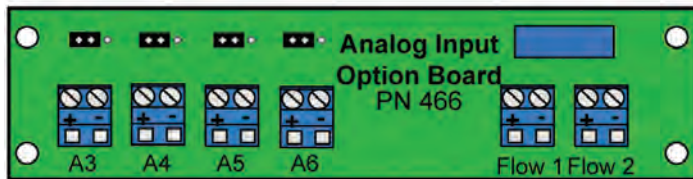
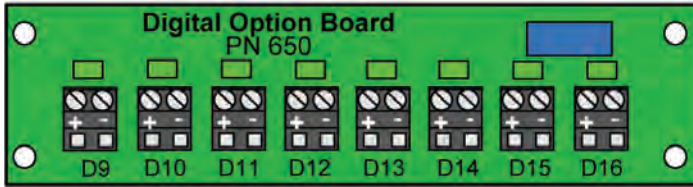
Analog Input Board

Pulse Input Board

Analog Output Board

- **Expand RTU Inputs and Outputs**
- **Easy to Install**
- **Mounting Hardware Included**

## Details



## Technical Specifications

### Digital Input Option Board:

- 8 dry contact digital inputs, non-supervised
- Normally-open or normally-closed
- Real-time alarms

### Pulse Input Option Board:

- 2 pulse counting inputs
- Dry contact or open collector
- Low and high alarm thresholds
- Supports up to 60 Hz frequency and 17 ms minimum pulse duration
- Scaled based on unit of measurement
- Reports every fifteen minutes on an M110 and every two minutes on an M800

### Analog Input Option Board:

- 4 analog inputs
- 4-20 mA or 0-5 VDC
- 10-bit resolution
- 4 alarm threshold set points per input
- 2 pulse counting inputs (see Pulse Input Option Board spec)

### Analog Output Option Board:

- 2 analog output channels
- 4-20 mA current loop signal
- Manual or automatic control (site-to-site)
- Scaled at web portal

### Analog Output/Pulse Option Board:

- 2 analog output channels
- 2 pulse counting channels (see Pulse Input Option Board spec)
- Pulse value can trigger an analog output value change

**Note:** Data frequency is based on M110 and M800 specifications unless otherwise stated.