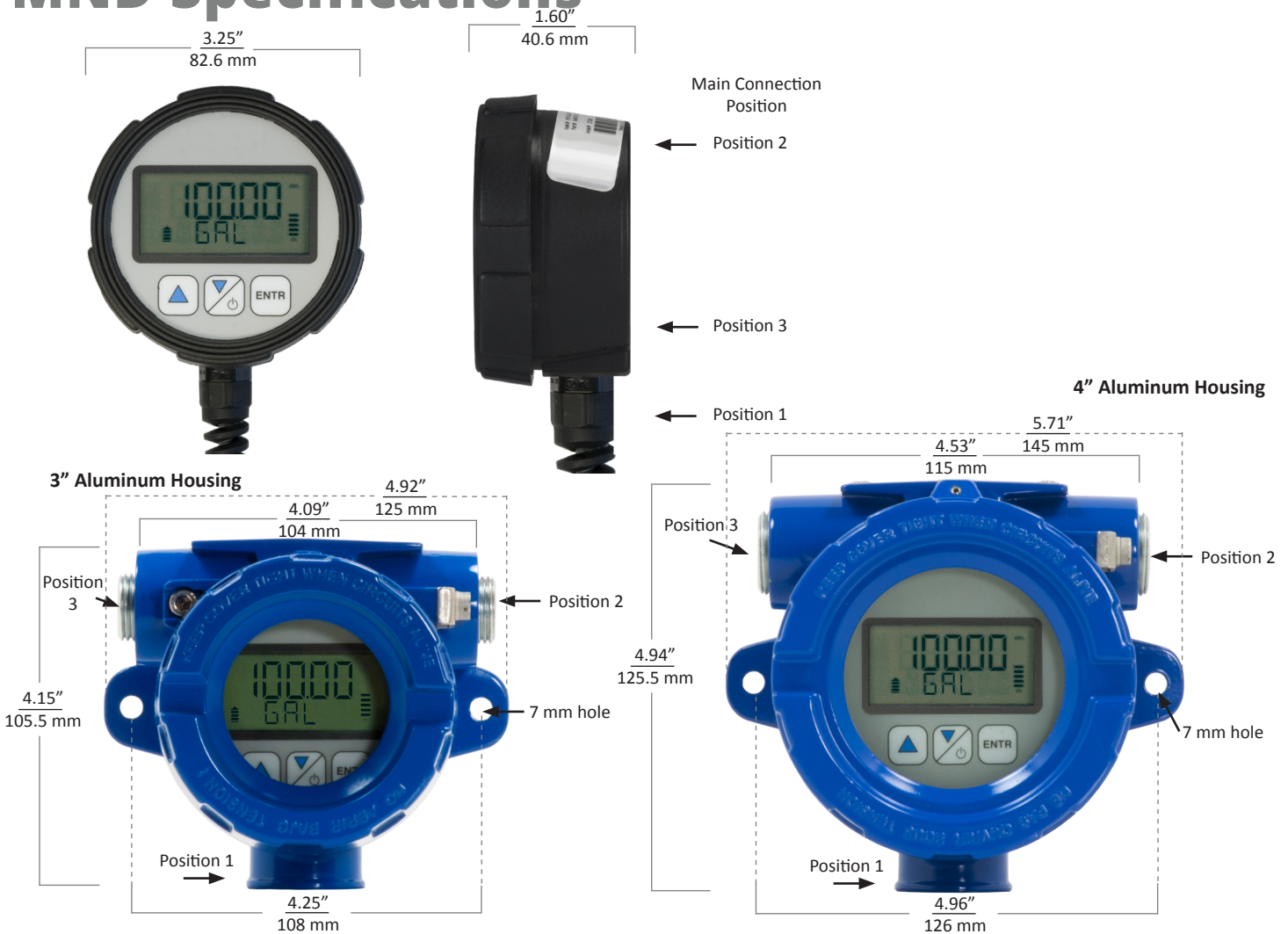# Modbus Network Display
Series: MND

The MND Modbus Network Display provides a local display that can be wired to a local Modbus network or sensor, displaying readings from any of the sensors in the network (up to 10). It is easy to use and very flexible. The MND can operate in either master or sniffer mode. An output relay can be configured to provide power to a slave sensor, allowing for precise sensor power control. With the ability to listen in on master-sensor communication or poll sensors for current readings, the MND provides a valuable display option for your network.

Features

- Large, full 5-digit display with 0.4 in. characters
- Environmentally sealed housings: IP67 (Plastic housing) or IP68 (aluminum housing)
- User selectable units of measure:
    barrels, cubic inches, liters, cubic meters, gallons, million cubic feet, cubic feet, custom
- Switchable power control for connected sensor

MND Specifications

3.25″
82.6 mm

1.60″
40.6 mm

Main Connection
Position

Position 2

Position 3

Position 1

3″ Aluminum Housing

4.92″
125 mm

4.09″
104 mm

Position 3

Position 2

4.15″
105.5 mm

7 mm hole

Position 1

4.25″
108 mm

4″ Aluminum Housing

5.71″
145 mm

4.53″
115 mm

Position 3

Position 2

4.94″
125.5 mm

7 mm hole

Position 1

4.96″
126 mm

Performance
- RS-485 (Modbus RTU):
  2400, 9600, 19200, 38400 baud rates
- Display readings: volume, level, distance, pressure

Connectivity
- Output Options:
  4-20 mA, 0-3 VDC, Telecom Relay
  5A (240 VAC / 220 VDC max)
- Control:
  Modbus RTU

Environmental
- Protection rating: IP67 / IP68
- Storage Temp: -30° - 160°F (-30° - 71°C)
- Operating Temp: 0° - 160°F (-18° - 71°C)

Certification
- IP67 - Plastic Housing
- IP68 - Aluminum Housing
- CE

Programming
- Programmable Features:
  User selectable units of measure
  Sniffer mode
  Master mode
  Auto-Off

Electrical
- External Power Option: 9-28 VDC
- Battery Option:
  1 - 9V Lithium
  1 - 3.6V Lithium
  2 - AA Alkaline
  Low battery detection with 25% increments

Physical
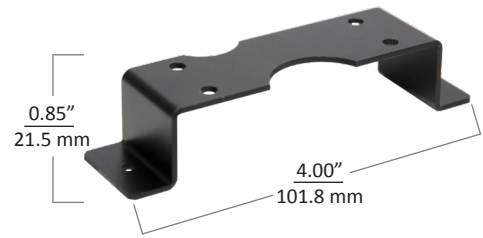- Plastic Housing:
  Injected molded case (EMI-X ® PDX-W-88341)
- Aluminum Housing:
  Cast aluminum, epoxy coated
- Display: 5 digit LCD, 0.4 in. digits
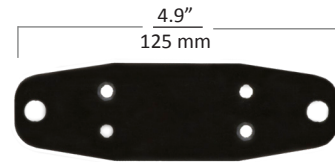
MND Mounting Options

Rubber Boot
(Option #1)

3.4"
86.75 mm

Standoff Bracket
(Option #2)

0.85"
21.5 mm

4.00"
101.8 mm

Panel Mount Bracket
(Option #4)

0.62"
15.83 mm

3.9"
99.15 mm

Flat Mount Bracket
(Option #5)

4.9"
125 mm

MND Accessories

Please order separately, by part number.

Description	Part Number
4-pin female micro connector (M12) Field Wireable	509087
4-pin female micro connector (M12) with cable	135407-00XX
	XX= 02, 05, 10, or 30 for meters of cable
4 Conductor Cable	135287
5 Conductor Cable	135296
6 Conductor Cable	135297
8 Conductor Cable	135300

Model Configuration Options

Model Number: MND - ____ ____ ____ ____ ____ ____ - ____ - ____-B81
               A   B   C   D   E   F   G   H

A. Input Power

☐ **1**   External Power (max 28VDC)

☐ **2**   Battery 9V lithium

☐ **3**▲   External Power low current (max 14.5VDC)

☐ **6**   Batteries (2) AA Alkaline Series

☐ **8**   Battery (1) AA 3.6V Lithium†

B. Analog Output

Analog

☐ **0**▲   No Analog, RS-485 output

☐ **1**   4-20 mA & RS-485

☐ **2**   0-3 VDC & RS-485

C. Relays

☐ **0**▲   No Relays

☐ **1**   2 Telecom NO Latching Relays

☐ **2**   Relay 1 (controls on/off on a slave sensor)

☐ **3**   One Telecom SPDT Latching Relay

☐ **4**   2 Telecom NC Latching Relays

D. Enclosure

☐ **0**▲   3" Round Plastic Housing

☐ **2**   3" Aluminum (1/2" NPT cable entry)

☐ **3**   4" Aluminum (3/4" NPT cable entry)

☐ **4**   No Housing, 3" Round Plastic PCB Mount

E. Mounting/Cover

☐ **0**▲   Standard Mounting

☐ **1**   Rubber Boot

☐ **2**   Standoff Bracket

☐ **4**   Panel Mount Bracket (black delrin)

☐ **5**   Flat Mount Bracket (black acrylic)

☐ **6**   Flat Mount Bracket (black acrylic) and Rubber Boot

†Note: (1) 3.6V Lithium battery cannot be used to power a slave senor.

▲This option is standard.

F. Main Connection Location

☐ **1**▲   Position 1

☐ **2**   Position 2

☐ **3**   Position 3

G. Main Cable or Connector

☐ **C__**   Cable, in feet, with flying leads
(ex. C100=100 feet)
Availible in 1 ft increments; 6 ft standard

☐ **M__**   Cable, in feet, with connector
(ex. M5C5 = 4 pin M12 Female connector with 5 feet of cable)
Availible in 1 ft increments; 6 ft standard

☐ **__**   Connector only

Connectors

☐ **1**   6 pin Tajimi Male

☐ **2**   4 pin M12 Male

☐ **3**   5 pin M12 Male

☐ **4**   8 pin M12 Male

☐ **5**   4 pin M12 Female

☐ **6**   8 pin M12 Male

H. Backlight

☐ **0**▲   No Backlight or Heater

Requires External Power option

☐ **1**   Backlight