The MNU series sensors utilize standard Modbus RTU protocol (RS-485). The MNU is designed to work as a slave device. With the ability to measure volume and distance, the MNU is the ideal sensor for your application.

Features

- Ranges from 4 in - 40 ft
- Self-Contained Sensor
- RS-485 Modbus RTU Interface
- Measure Distance, Level, or Volume
- Internal Temperature Compensation
MNU Specifications

**Performance**
- Operating Range:
  - MNU-5414: 4 - 79 in (101 - 2007 mm)
  - MNU-5424: 4 - 79 in (101 - 2007 mm)
  - MNU-8424: 5 - 144 in (125 - 3658 mm)
  - MNU-2424: 1 - 25 ft (0.30 - 7.62 m)
  - MNU-3434: 1.5 - 40 ft (0.46 - 12.19 m)
- Beam Pattern: 9º off axis
- Internal Temperature Compensation
- Frequency:
  - 43 kHz (MNU-3434), 69 kHz (MNU-2424)
  - 81 kHz (MNU-8424), 143 kHz (MNU-5414, 5424)
- Accuracy: ±0.25% of detected range
- Resolution: 0.1 in. (2.5 mm)
- Response Time: Programmable

**Connectivity**
- Output:
  - Modbus RTU (RS-485)

**Electrical**
- Supply Voltage: 8-24 VDC
- Total Current Draw: 22 mA
- Wiring Connection:
  - 4-conductor twisted-pair cable
  - 4-pin micro-connector

**Programming**
- Interface with RS-485 Modbus RTU
  - Windows compatible software can be provided to adjust internal parameters.
- User selected units of measure

**Physical**
- PC/PBT blend upper housing
- Transducer Type: Ceramic, PVDF faced

**Certification**
- NEMA 6P
Model Configuration Options

Model Number: MNU-____ - _____

A. Model

- □ 5414  4 - 79 in (101 - 2007 mm), 1 inch NPT
- □ 5424  4 - 79 in (101 - 2007 mm), 2 inch NPT
- □ 8424  5 - 144 in (125 - 3658 mm), 2 inch NPT
- □ 2424  1 - 25 ft (0.30 - 7.62 m), 2 inch NPT
- □ 3434  1.5 - 40 ft (0.46 - 12.19 m), 3 inch NPT

B. Cable/Micro Connector

- □ CL  Specify length - standard length is 6 ft
- □ M  Micro connector (note: Mating connector cable sold separately)

Common Model Configurations

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNU-2424-C6</td>
<td>1 - 25 ft range, 69 kHz, 6 ft cable</td>
</tr>
<tr>
<td>MNU-3434-C6</td>
<td>1.5 - 40 ft range, 43 kHz, 6 ft cable</td>
</tr>
<tr>
<td>MNU-8424-C6</td>
<td>5 - 144 in range, 81 kHz, 6 ft cable</td>
</tr>
</tbody>
</table>

MNU Accessories

Please order separately, by part number.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Conductor Over-molded Extension Cables with Foil Shield</td>
<td></td>
</tr>
<tr>
<td>Straight, 2 m</td>
<td>135407-0002</td>
</tr>
<tr>
<td>Right angle, 2 m</td>
<td>135407-1002</td>
</tr>
<tr>
<td>Straight, 5 m</td>
<td>135407-0005</td>
</tr>
<tr>
<td>Right angle, 5 m</td>
<td>135407-1005</td>
</tr>
</tbody>
</table>
Tank Cloud

Put Your Tanks In The Cloud

1 Remote Sensors
Connect to any 4-20mA signal or APG Modbus sensor for constant access to your data. Access up to 10 sensors on a single connection.

2 Use the Internet Backbone
Connect the APG sensor or module to the Internet via landline, radio, cellular, or satellite.

3 View Secure Data 24/7
Access sensor data online through our secure portal at levelandflow.com. If the Internet is accessible, so is your information.

4 Stay Up-To-Date
Program custom alarms - receive email and text (sms) message alerts on your computer, mobile phone, or tablet.

The Line-Up:

Online Data Portal

The Tank Cloud data portal, located online at www.levelandflow.com, displays everything you need to know about your measurement.

Here you can:

- View your current and past readings,
- Manage alarms,
- Configure your sensors,
- and Setup user permissions for others in your organization.

Measurements are sorted by location and grouped into sites. Simply select the site you would like to view, and then choose the sensor. Current readings are prominent in the center of the screen.

Contact us today at 888-525-7300 to set-up a demonstration of our sensors and online software. We are excited to show you how it can impact your business.