Modbus/Tank Cloud Ultrasonic Sensor





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 volumn and distance, the MNU is the ideal sensor for your application.

Features

• Ranges from 4 in - 40 ft

Series: MNU

- Self-Contained Sensor
- RS-485 Modbus RTU Interface
- Measure Distance, Level, or Volume
- Internal Temperature Compensation



MNU Specifications







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: 9° 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



 Output: Modbus RTU (RS-485)



- Ratings: NEMA 6P
- Operating Temp: -30° 140°F (-34° 60°C)





Electrical

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



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



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



NEMA 6P



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Model Configuration Options

Model Number: MNU- ____ - ___ B

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

Model Number	Model Description
MNU-2424-C6	1 - 25 ft range, 69 kHz , 6 ft cable
MNU-3434-C6	1.5 - 40 ft range, 43 kHz , 6 ft cable
MNU-8424-C6	5 - 144 in range, 81 kHz, 6 ft cable

MNU Accessories

Please order separately, by part number.

Description	Part Number		
4 Conductor Over-molded Extension Cables with Foil Shield			
Straight, 2 m	135407-0002		
Right angle, 2 m	135407-1002		
Straight, 5 m	135407-0005		
Right angle, 5 m	135407-1005		



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Tank Cloud

Put Your Tanks In The Cloud

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.

Use the Internet Backbone

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

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.

Stay Up-To-Date

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







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.