# SiloTrack™ CLOUD

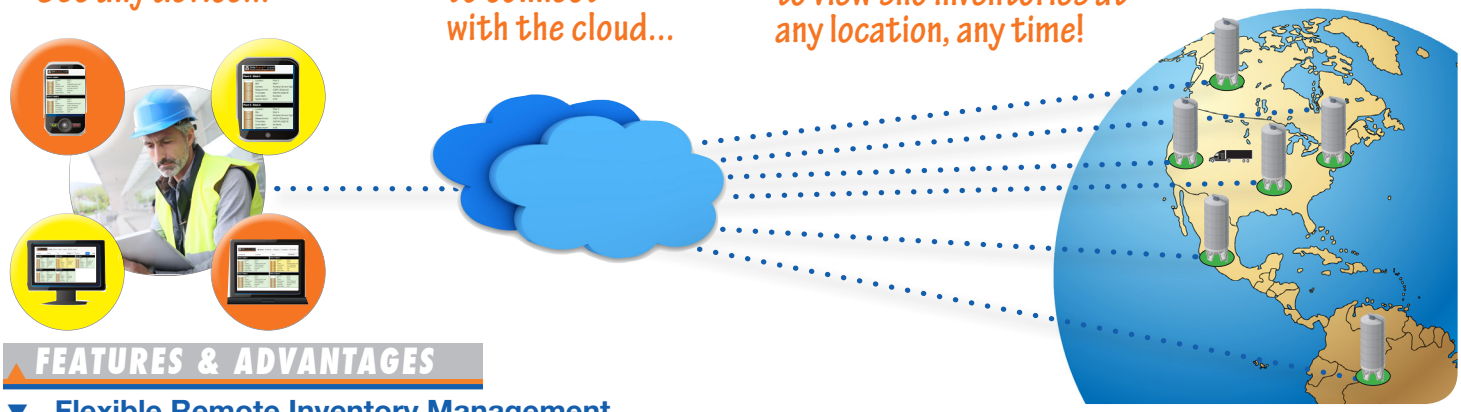
MONITOR

Missouri Filter & Process Equipment Co
MOFILCO-Quality, Value, Service
12025 Manchester Road, Suite 30G
St Louis MO 63131
314-821-4321 www.mofilco.com
mofilco@mofilco.com

## Remote Inventory Management System - Continuous Level Measurement

### Monitor vessel levels using a web-based application

Use any device... to connect with the cloud... to view silo inventories at any location, any time!



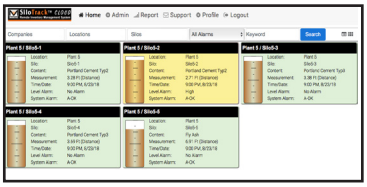
## FEATURES & ADVANTAGES

### Flexible Remote Inventory Management

- Access real-time material inventory data from any device that has an Internet connection.
- Intuitive, flexible and powerful graphical user interface.
- Manage multiple locations with multiple silos / vessels.
- Control user permissions through secured login profiles.

### Inventory Information at Your "Fingertips"!

- View distance, level, volume, weight, percentage and ullages (empty space) for silos.
- See multiple silos on one screen. Filter to see only specific locations or silos.
- Set level alarms and monitor sensor status... Configure e-mail and text notifications.
- Create, save and generate configurable reports.
- Automatically e-mail reports to specific users. (Facility Manager, Dispatcher, etc.)
- Access historical data to create trends, improve inventory / procurement efficiencies.



View multiple silos at one time.



See overiew & history of a silo.

### Secure and Reliable Communications

- Data is secure and encrypted.
- Connection from Gateway(s) to the Cloud-based server can be either through cellular or Ethernet.

## PRINCIPLE OF OPERATION

**SiloTrack**™ *CLOUD* Inventory Management System is a web-based application that provides users with an unmatched, flexible user interface from any device with Internet access for Monitor's "Smart" RS-485 (Modbus) continuous level sensors. **SiloTrack**™ *CLOUD* allows for monitoring up to 32 sensors per Gateway including the **SiloPatrol**® SMU cable-based sensors and/or Monitor's **RadarRight**™ non-contact radar sensors. The sensor data collected through the cloud-based server can be accessed at any time from any place to view current status, review history and create reports to optimize inventory management.

## PRACTICAL APPLICATIONS

- **Ideal for Remote Managed Inventory / Vendor Managed Inventory (RMI / VMI) solutions.**
- Optimize frequency of deliveries & transportation costs.
- Receive timely material inventory levels from anywhere.
- Does not require the installation of software on your computers (i.e. "no code on the client").
- Access data history and create customizable reports to share information across functional departments.

For more detailed information, please contact a Monitor representative or visit Monitor's website at https://www.monitortech.com/product _conti.shtml Or scan this with a smartphone QR-Code app.

## OPTIONS

- Universal 85-265VAC or 24VDC Operating Voltage (Gateway)
- Standard or High Gain Antenna (Gateway)
- Cellular or Ethernet Connectivity (Gateway)
- **WirelessEZ** Communication Interface (radio modem) can be used to replace the RS-485 wiring between level sensors & the Gateway

**MONITOR TECHNOLOGIES, LLC**
**44W320 Keslinger Road, Elburn, IL 60119 USA**
**Tel: 1-630-365-9403 ▼ In US/CAN 1-800-766-6486**
**www.monitortech.com ▼ monitor@monitortech.com**

follow us on facebook LinkedIn Google+

Level Blog - http://monitortech.typepad.com

## SPECIFICATIONS

### SiloTrack™ CLOUD Gateway

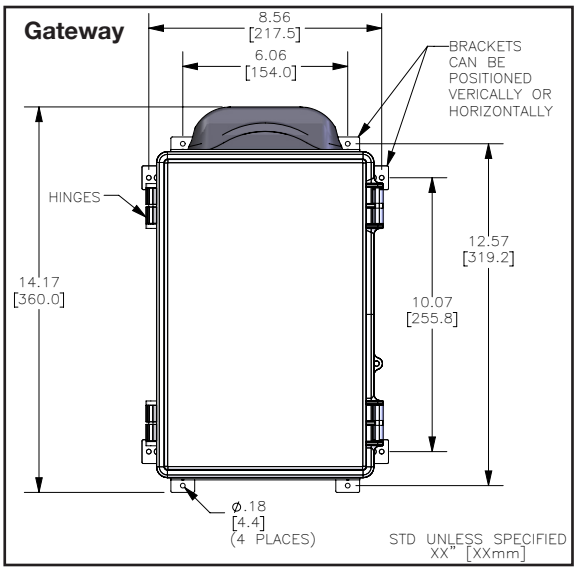
| | |
|---|---|
| Power Requirements | |
| AC: | 115-230VAC ± 15%, 50/60 Hz |
| DC: | 24VDC ± 15% |
| Power Consumption | |
| AC: | 70W (1.5A max @ 115VAC) |
| DC: | 18W max |
| AUX 24VDC Output: | 1.7A max ( AC Version Only) |
| Ambient Operating Temp: | -30° F to 149° F (-34° C to 65° C) |
| Sensor Communication: | RS-485 half-duplex, non-isolated, Modbus RTU protocol 9600/8/N/1 |
| Sensor Channels: | One (1) 32-channel network (32 channels total) |
| Cellular Wireless Interface: [LTE - North America (M5)] | LTE CAT 4: 700(B12,13)/850(B5)/AWS(B4)/1900(B2) 3G HSPA+: 850/1900 MHz Transfer rate (max): 150 Mbps down, 50 Mbps up |
| FCC ID: | R17LE910NA V |
| Emissions / Immunity: | CE, FCC Part 15 Class B, AS/NZS CISPR 22, EN55024, EN55022 Class B |
| Indicators: | 7 LEDs (Power, Service, WWAN, 3x Signal Strength, User Programmable) |
| Enclosure Material: | PBT / PC |
| Enclosure (HxWxD): | 12” x 8” x 6.4" (305mm x 203mm x 163mm) |
| Environmental Protect: | ENCLOSURE TYPE 4X, IP65 |
| Approvals: | UL Listed (Power Supply & Router) |

### SiloTrack™ CLOUD Application

| | |
|---|---|
| Device Operating System: | Designed to work with most operating systems such as Mac, iOS, Windows, Linux, Android |
| Device Browser Requirement: | Designed to work with most Internet browsers such as Chrome, Firefox, Safari, Explorer, Edge |
| Export File Format: | .csv |

## MECHANICALS

**DIMENSIONS ARE SHOWN IN INCHES WITH MILLIMETER EQUIVALENT IN BRACKETS UNLESS OTHERWISE STATED**




## ORDERING INFORMATION

Information on this sheet is subject to change without notice.

**SiloTrack™ Cloud Inventory Management System - Gateway** Notes 1,2

| Select | Model Series |
|---|---|
| 7 | SiloTrack Cloud Gateway and Inventory Management System |

| Select | Gateway Connectivity (Pre-Programmed at the Factory) |
|---|---|
| 1 | North America Cellular (4G LTE) and Ethernet |
| 2 | Other - TBD *(Consult Factory)* |
| 3 | Other - TBD *(Consult Factory)* |

| Select | Communication Protocol |
|---|---|
| 1 | Modbus - SiloPatrol, RadarRight Note 3 |

| Select | Environment |
|---|---|
| 1 | Ordinary Locations |

| Select | Operating Voltage |
|---|---|
| 1 | Universal 85-265 VAC |
| 2 | 24 VDC |

| Select | Antenna |
|---|---|
| 1 | Standard |
| 2 | High Gain *(Consult Factory)* |

| 6 | - | 8 | 7 | X | X | - | X | X | X | Order Number |
|---|---|---|---|---|---|---|---|---|---|---|

**SiloTrack™ Cloud Inventory Management System - Subscription Service** Note 1

| Select | Service |
|---|---|
| 7 | SiloTrack Cloud Application Subscription |

| Select | Subscription Configuration Note 4 |
|---|---|
| 8 | Host and Ethernet Connectivity (Annual Contract) |
| 9 | Host and Cellular Connectivity (Annual Contract) |

| Select | Cellular Data Package Size |
|---|---|
| 0 | No Cellular Data Plan Required |
| 1 | Standard |
| 2 | Enhanced *(Consult Factory)* |

| Select | Geographic Coverage |
|---|---|
| 1 | United Sates |
| 2 | TBD *(Consult Factory)* |
| 3 | TBD *(Consult Factory)* |

| Select | Carrier Note 5 |
|---|---|
| 0 | No Cellular Carrier Required |
| 1 | Verizon |
| 2 | AT&T |
| 3 | TBD *(Consult Factory)* |
| 4 | TBD *(Consult Factory)* |

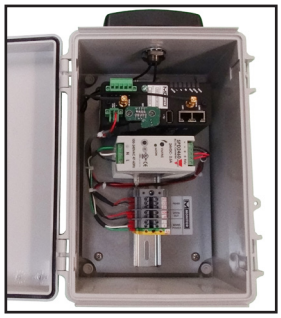
| 6 | - | 8 | 7 | X | X | - | X | X | Order Number |
|---|---|---|---|---|---|---|---|---|---|

**NOTE:**
1. A Subscription Service is required for each Gateway.
2. Up to 32 sensors per Gateway. Minimum one Gateway per location.
3. If Gateway is to be used with pre-existing SiloPatrol® SMU’s and / or RadarRight™ sensors, please consult the factory to confirm that the sensors are Modbus (RS-485) compatible.
4. Subscription fee is charged once a year, in advance.
5. Verizon® is the primary (default) cellular carrier. Please select Verizon unless they do not provide adequate coverage in your area.

**ACCESSORIES / REPLACEMENT PARTS:**

| Part # | Description |
|---|---|
| 6-8010 | Tablet, WiFi / Bluetooth |
| 17-8021 | Rplc. Power Supply, Universal AC to 24VDC |
| 6-1964 | Rplc. PCB Assembly, D-Sub Adapter |
| TBD | Rplc. Antenna, Low Profile, Standard (***Consult Factory***) |
| TBD | Rplc. Antenna, High Gain (***Consult Factory***) |
| TBD | Rplc. Module, Router, 4G, Cellular / Ethernet (***Consult Factory***) |



Durable Gateway for wireless or Ethernet connection to the Cloud-based server.

## OVERVIEW

