

1218

Electronic Tank Gauge



1218 System Consoles

1218C-0200 AC	System console monitors up to 2 tanks
1218C-0400 AC	System console monitors up to 4 tanks
1218C-0000 AC	Remote console

1218 Tank Level Sensors

1218S-2500 AS	25' tank level sensor
1218S-5000 AS	50' tank level sensor

1218 Wireless Connectivity options

1218C-0154 2A	Wireless access point
1218C-0164 AK	Long range wireless base station kit
1218C-0163 2C	Wireless client

1218 Accessories

1218C-0169 AG	Cellular Gateway
1218C-6600 AM	External Input/Output Expansion Module
1218C-0171 AS	Outdoor 5-port Ethernet Switch Assembly
1218C-0172 AS	Outdoor 8-port Ethernet Switch Assembly
1218S-2539 CC	1,000' spool Belden 7933A cable
1218S-2543 CC	50' spool Belden 7933A cable
1218S-2544 CC	100' spool Belden 7933A cable
1218S-2545 CC	500' spool Belden 7933A cable

711 Solenoid Valves

711---0200 1V	2" NPT
711---0300 1V	3" NPT
711NC-0200 1V	2" NPT

918 Overfill Alarm Boxes

918S--1100 AA	Single channel tank alarm box
918SB-1000 AA	Single channel tank alarm box with rotating beacon

Remote Strobe

918AC-0156 2L	Remote strobe; 120 Volt AC
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Remote Horn

918AC-0154 AH	Remote horn and box kit; 120 Volt AC
918AC-0157 AHS	Remote horn, box and strobe light kit; 120 Volt AC

918 Clock Gauges

918---0000AGEVR	Clock gauge (FT & IN) w/o alarm; standard float; EVR
918---2000AGEVR	Clock gauge (FT & IN) w/o alarm; DT float; EVR
918C--0000 AG	Clock gauge (gallons or liters) w/o alarm; male threads; standard float
918C--2000 AG	Clock gauge (gallons or liters) w/o alarm; male threads; DT float
918CF-0000 AG	Clock gauge (gallons or liters) w/o alarm; female threads; standard float
918CF-2000 AG	Clock gauge (gallons or liters) w/o alarm; female threads; DT float
918F--0000AGEVR	Clock gauge (FT & IN) w/o alarm; female threads; standard float
918F--2000AGEVR	Clock gauge (FT & IN) w/o alarm; female threads; DT float
918MEF0000AGEVR	Clock gauge (meters & centimeters) w/o alarm; female threads; standard float
918MEF2000AGEVR	Clock gauge (meters & centimeters) w/o alarm; female threads; DT float
918MET0000AGEVR	Clock gauge (meters & centimeters) w/o alarm; male threads; standard float
918MET2000AGEVR	Clock gauge (meters & centimeters) w/o alarm; male threads; DT float
918T--2000 AG	Teflon® clock gauge (FT & IN) w/o alarm; male threads; DT float
918FT-0400 AG	Teflon® clock gauge (FT & IN) w/o alarm; female threads; DT float

918 Overfill Alarm Boxes

918S--1100 AA	Single channel tank alarm box
918SB-1000 AA	Single channel tank alarm box with rotating beacon
918TCP0400 AS	Sensor assembly (no alarm) (5' probe length)
918TCP0500 AS	Sensor assembly (no alarm) (9½' probe length)

918AC System Interface

918AC-1000 AI	System interface console (1 INPUT, 0 OUTPUTS)
918AC-1100 AI	System interface console (1 INPUT, 1 OUTPUT)
918AC-2000 AI	System interface console (2 INPUTS, 0 OUTPUTS)
918AC-2100 AI	System interface console (2 INPUTS, 1 OUTPUT)
918AC-2200 AI	System interface console (2 INPUTS, 2 OUTPUTS)

**Contact Customer Service for additional 918AC options.*

924 Adjustable Level Sensors

924---0600 AS	6" Brass adjustable level sensor
924---1200 AS	12" Brass adjustable level sensor
924---2000 AS	20" Brass adjustable level sensor
924---3000 AS	30" Brass adjustable level sensor
924S--0600 AS	6" Stainless steel adjustable level sensor
924S--1200 AS	12" Stainless steel adjustable level sensor
924S--2000 AS	20" Stainless steel adjustable level sensor
924S--3000 AS	30" Stainless steel adjustable level sensor

924LS Level Sensors

924LS-0150 AS	Level sensor with 15' lead wire
924LS-0250 AS	Level sensor with 25' lead wire
924LS-0600 AS	Level sensor with 60' lead wire

925 Conduit Junction Housing

925---0113 2B	Conduit junction housing (NEMA 4)
925---0114 2B	Conduit junction housing (NEMA 7, Group C & D)

925 Multi-Level Sensors

925---1030 AS	1 float, brass; stem length 3¾" to 36"
925---1060 AS	1 float, brass; stem length greater than 36" to 72"
925---1090 AS	1 float, brass; stem length greater than 72" to 108"
925---1120 AS	1 float, brass; stem length greater than 108" to 144"
925---2030 AS	2 floats, brass; stem length 3¾" to 36"
925---2060 AS	2 floats, brass; stem length greater than 36" to 72"
925---2090 AS	2 floats, brass; stem length greater than 72" to 108"
925---2120 AS	2 floats, brass; stem length greater than 108" to 144"
925S--1030 AS	1 float, SS; stem length 3¾" to 36"
925S--1060 AS	1 float, SS; stem length greater than 36" to 72"
925S--1090 AS	1 float, SS; stem length greater than 72" to 108"
925S--1120 AS	1 float, SS; stem length greater than 108" to 144"
925S--2030 AS	2 floats, SS; stem length 3¾" to 36"
925S--2060 AS	2 floats, SS; stem length greater than 36" to 72"
925S--2090 AS	2 floats, SS; stem length greater than 72" to 108"
925S--2120 AS	2 floats, SS; stem length greater than 108" to 144"


MORRISON BROS. CO.

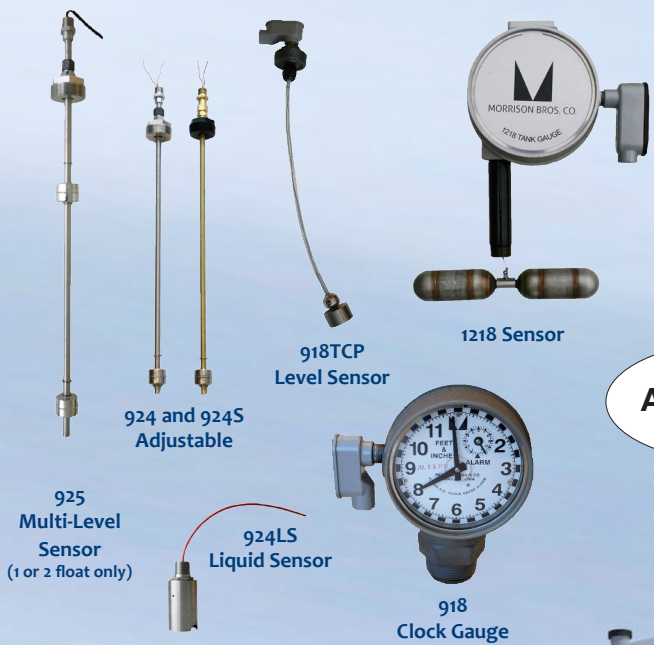
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At the network connection...



At the tank...



At the console...



Model 1218 Electronic Tank Gauge

SPECIFICATION SHEET

Application

The Morrison 1218 electronic tank gauge series monitors and displays the liquid level and/or volume of product stored in 1 to 4 aboveground storage tanks. The tank sensor utilizes a mechanical float to monitor the tank liquid level and electronically converts the tank level to display on the system console located within 1000' of the tank sensor.

System Console Features

- 4.3" diagonal color LCD display (480x272 pixels) with auto LED backlight adjustment
- System console displays liquid volume level in horizontal, rectangular, or vertical tanks
- Level units: feet and inches or centimeters (resolution to 1/10 of an inch)
- Volume units: gallons or liters
- Visual and audible alarm indication when alarm condition is activated
- 2 output relays—3 Amps @ 240 VAC
- Simple push to test or acknowledge alarm button
- Ability to test output relay functionality
- USB port functionality—software updates and download event logs
- Configuration setup via Ethernet PC connection, Ethernet Network connection, or manually at console
- NEMA 4X (IP65) indoor/outdoor weather protected, lockable enclosure
- Optional remote secondary console with operational functionality
- Optional External Input/Output Expansion Module adds 6 inputs and 6 output relays (See 1218 External I/O Expansion spec sheet for details)

Tank Sensor Features

- 25' and 50' models available for use with system console
- 2 dry contact, intrinsically safe inputs available in tank sensor for additional simple switch inputs
- 25' tank sensor accuracy +/- 0.3"; 50' tank sensor accuracy +/- 0.6"
- DEF compatible

Configuration Options

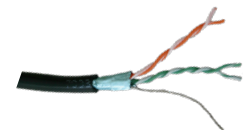
- User defined tank identifications, alarm levels, and input alarm labels
- Up to 4 programmable liquid level alarm set points per tank
- Audible alarm ON/OFF and Auto-Silence ON/OFF is programmable by input channel
- Output relays programmable as normally activated or normally deactivated and for desired alarm activations
- Email address book supports email and SMS/text message alarm and status notifications
- Sloped tank and manifold tank functionality available for specific parameters
- Heartbeat power indicator is user selectable



1218C



1218S



7933A Belden Cable*
*Required



Drop Tube Float

*Please note that a 4" tank opening is required for models with Drop Tube Floats.



Network Connectivity

- Ethernet port connection (RJ-45 connector)
- TCP/IP configured with static IP address or dynamically using DHCP and local host name
- HTTPS secure web-based interface with system console for remote viewing
- Multiple display system consoles can be networked by utilizing Ethernet functionality
- Option: Cellular Gateway connection

FuelCloud Connectivity

- Allows FuelCloud accounts to collect tank inventory information from any 1218 tank gauge console with internet service via FuelCloud's web portal

Business Management System Connectivity

- Modbus RTU and TCP interface configuration

Reports

- System stores an event log (up to 1,000 events) and creates a downloadable report
- Event log can be downloaded via network Ethernet connection or via USB port inside system console

Specifications

- Operating temperature range: -40°F to 140°F (-40°C to 60°C); Humidity: 0% to 95% non-condensing
- System console dimensions (H x W x D): 9³/₈" x 7⁷/₈" x 4⁵/₈"
- 100-240 VAC +/- 10%, 50/60 Hz

Materials of Construction

- Tank sensor body*... Passivated aluminum
- Cable and float... Stainless steel cable and float
- Console enclosure... Polyester fiberglass

**1218S contains the following materials that will be exposed to vapors from stored product: Aluminum, stainless steel, Viton®, UHMW plastic, and steel.*

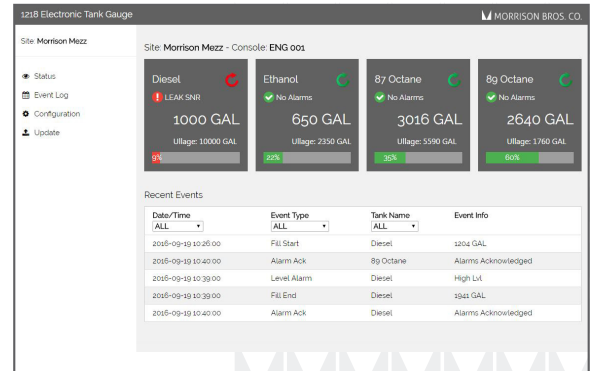
7933A Belden Cable*

- Multi-Conductor - Category 5e Data Tuff® twisted pair cable
- .030" industrial grade sunlight- and oil-resistant PVC jacket
 - 24 AWG Bonded-Pairs solid bare copper conductors
 - Polyolefin insulation
 - Overall Beldfoil® shield (100% coverage) with drain wire
 - Operating temperature range: -40°C to 75°C (-40°F to 167°F)

**7933A Belden cable is required to connect the console to sensor(s). This cable is critical to the proper operation and safety of the system.*

Approvals

UL/cUL 913; UL/cUL 508; Listing for Tank Monitoring Equipment for Ordinary Location with Hazardous Location Intrinsically Safe Input Circuits for Class I, Division 1, Group D; Florida DEP EQ-872



Web-based interface

Item Number	Description	Wt. (lbs)
1218C-0200 AC	System console monitors up to 2 tanks	6.0
1218C-0400 AC	System console monitors up to 4 tanks	6.0
1218C-0000 AC	Remote secondary console (optional)	6.0
1218S-2500 AS	25' tank level sensor	8.0
1218S-2510 AS	25' tank level sensor with drop tube float	N/A
1218S-5000 AS	50' tank level sensor	11.0
1218S-5010 AS	50' tank level sensor with drop tube float	N/A
1218S-2539 CC	1,000' spool Belden 7933A cable	N/A
1218S-2543 CC	50' spool Belden 7933A cable	N/A
1218S-2544 CC	100' spool Belden 7933A cable	N/A
1218S-2545 CC	500' spool Belden 7933A cable	N/A

