Equipment Solutions per API 2350

Rosemount Tank Gauging
Revision BA
July 2016
Automatic Overfill Prevention System (AOPS)

Fixed Roof Tank
Fixed Roof AOPS 5900S + 5900S (SIL 2)
Fixed Roof AOPS 5900S + 5900S (SIL 3)
Fixed Roof AOPS 5900S + 5900S + DeltaV + Bettis (SIL 2)
Fixed Roof AOPS 5900S + 5900S + DeltaV + Bettis (SIL 3)
Fixed Roof AOPS 5900S + 5900C

Automatic Overfill Prevention System (AOPS)
- Safety Instrumented System (SIS)
- Rosemount 5900C Radar Level Gauge
- SIL 2 Relay and/or 4-20 mA Analog Signal
- Rosemount 2410 Tank Hub

Automatic Tank Gauging (ATG)
- Rosemount 2240S with Multiple Point Temperature
- Rosemount 5900S Radar Level Gauge
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub

TankMaster Inventory Management Software
- Connection to TankMaster (optional)
- Rosemount 2460 System Hub
- Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Fixed Roof AOPS 5900S 2-in-1
Fixed Roof AOPS 5900S + 5400

Automatic Overfill Prevention System (AOPS)

Safety Instrumented System (SIS)

SIL 2
4-20 mA Analog Signal

Rosemount 5400 Radar Level Transmitter (Pulse)

Automatic Tank Gauging (ATG)

Rosemount 2240S with Multiple Point Temperature

Rosemount 5900S Radar Level Gauge (FMCW)

Rosemount 2230 Graphical Field Display

TankMaster Inventory Management Software

Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

Rosemount 2410 Tank Hub

Rosemount 2460 System Hub

Emerson
Fixed Roof AOPS 5900S + 5300
Fixed Roof AOPS 5900S + 2120/2130

Automatic Overfill Prevention System (AOPS)
- Rosemount 2120/2130 Level Switch
- Rosemount 2240S with Multiple Point Temperature
- Rosemount 5900S Radar Level Gauge

Automatic Tank Gauging (ATG)
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub

Safety Instrumented System (SIS)
- SIL 2 Relay Signal

Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Automatic Overfill Prevention System (AOPS)

Floating Roof Tank
Floating Roof AOPS 5900S + 5900S (pipe) (SIL 2)
Floating Roof AOPS 5900S + 5900S (roof reflector) (SIL 2)
Floating Roof AOPS 5900S + 5900S (pipe) (SIL 3)
Floating Roof AOPS 5900S + 5900S (roof reflector) (SIL 3)
Floating Roof AOPS 5900S + 5900C (pipe)
Floating Roof AOPS 5900S + 5900C (roof reflector)
Floating Roof AOPS 5900S 2-in-1

Automatic Overfill Prevention System (AOPS)

Safety Instrumented System (SIS)

SIL 2 Relay and/or 4-20 mA Analog Signal

Rosemount 2410 Tank Hub

Connection to TankMaster (optional)

Rosemount 2460 System Hub

Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

TankMaster Inventory Management Software

Automatic Tank Gauging (ATG)

Rosemount 2230 Graphical Field Display

Rosemount 2240S with Multiple Point Temperature

Rosemount 5900S 2-in-1 Radar Level Gauge

Rosemount 2410 Tank Hub

Rosemount 2460 System Hub
Floating Roof AOPS 5900S 2-in-1 + DeltaV + Bettis
Floating Roof AOPS 2x 5900S 2-in-1
Automatic Overfill Prevention System (AOPS)

Bullet Tank
Bullet Tank AOPS 5900S + 5900S (SIL 2)
Bullet Tank AOPS 5900S + 5900S (SIL 3)
Bullet Tank AOPS 5900S + 5900C

Automatic Overfill Prevention System (AOPS)

- Safety Instrumented System (SIS)
- Rosemount 5900C Radar Level Gauge with Pressure Transmitter
- SIL 2 Relay and/or 4-20 mA Analog Signal
- Rosemount 2410 Tank Hub
- Connection to TankMaster (optional)

Automatic Tank Gauging (ATG)

- Rosemount 5900S Radar Level Gauge with Pressure Transmitter
- Rosemount 644 with Single Point Temperature
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub
- Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
- Rosemount 2230 Graphical Field Display

TankMaster Inventory Management Software
Bullet Tank AOPS 5900S + 5300 (chamber)
Bullet Tank AOPS 5900S + 5300
Automatic Overfill Prevention System (AOPS)

Sphere Tank
Sphere Tank AOPS 5900S + 5900S (SIL 2)
Sphere Tank AOPS 5900S + 5900S (SIL 3)
Sphere Tank AOPS 5900S + 5900C

- **Automatic Overfill Prevention System (AOPS)**
  - Safety Instrumented System (SIS)
  - Rosemount 5900C Radar Level Gauge with Pressure Transmitter
  - Rosemount 5900S Radar Level Gauge with Pressure Transmitter
  - Rosemount 2230 Graphical Field Display
  - Rosemount 644 with Single Point Temperature
  - Verification Pin
  - Rosemount 644 with Single Point Temperature
  - TankMaster Inventory Management Software
  - Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

- **Automatic Tank Gauging (ATG)**
  - Rosemount 2410 Tank Hub
  - Rosemount 2410 Tank Hub
  - Rosemount 2460 System Hub
  - Rosemount 2460 System Hub
  - Connection to TankMaster (optional)
Manual Overfill Prevention System (MOPS)

Fixed Roof Tank
Fixed-Roof MOPS 5900S + 5900S
Fixed-Roof MOPS 5900S + 5900C
Fixed-Roof MOPS 5900S 2-in-1
Fixed-Rooftop MOPS 5900S + 5400
Fixed-Roof MOPS 5900S + 5300

Manual Overfill Prevention System (MOPS)
- Rosemount 2410 Tank Hub (optional)
  - Rosemount 5300 Guided Wave Radar Level Transmitter
  - Independent Alarm Panel
    - High-High Alarm

Automatic Tank Gauging (ATG)
- Rosemount 2240S with Multiple Point Temperature
- Rosemount 5900S Radar Level Gauge (FMCW)

- TankMaster Inventory Management Software
- Rosemount 2460 System Hub
  - Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

- Rosemount 2430 Graphical Field Display
- Rosemount 2460 System Hub
- Connection to TankMaster (optional)
Fixed-Roof MOPS 5900S + 3308
Fixed-Roof MOPS 5900S + 2120/2130

Manual Overfill Prevention System (MOPS)
- Rosemount 2120/2130 Level Switch
  - Discrete Signal
  - Independent Alarm Panel
    - High-High Alarm

Automatic Tank Gauging (ATG)
- Rosemount 2240S with Multiple Point Temperature
- Rosemount 5900S Radar Level Gauge
  - Rosemount 2230 Graphical Field Display
  - Rosemount 2410 Tank Hub
  - TankMaster Inventory Management Software
    - Rosemount 2460 System Hub
    - Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Fixed-Roof MOPS 5900S + 2160

Manual Overfill Prevention System (MOPS)
- Independent Alarm Panel
- High-High Alarm
- Wireless Signal
- PLC / Scada / RTU / Safety System
- WirelessHART 1410/1420 Wireless Gateway

Automatic Tank Gauging (ATG)
- Rosemount 2160 Wireless Level Switch
- Rosemount 2240S with Multiple Point Temperature
- Rosemount 5900S Radar Level Gauge
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub

Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

Connection to TankMaster (optional)

TankMaster Inventory Management Software
Manual Overfill Prevention System (MOPS)

Floating Roof Tank
Floating Roof MOPS 5900S + 5900S (pipe)
Floating Roof MOPS 5900S + 5900S (roof reflector)
Floating Roof MOPS 5900S + 5900C (pipe)
Floating Roof MOPS 5900S + 5900C (roof reflector)
Floating Roof MOPS 5900S 2-in-1
Floating Roof MOPS 5900S + DS21D
Manual Overfill Prevention System (MOPS)

Bullet Tank
Bullet MOPS 5900S + 5900S

Manual Overfill Prevention System (MOPS)

- Independent Alarm Panel
- High-High Alarm
- Analog, Relay or Digital Signal
- Rosemount 2410 Tank Hub
- Connection to TankMaster (optional)
- Verification Pin

Automatic Tank Gauging (ATG)

- Rosemount 5900S Radar Level Gauge with Pressure Transmitter
- Rosemount 2230 Graphical Field Display
- Rosemount 644 with Single Point Temperature
- Rosemount 2460 System Hub
- TankMaster Inventory Management Software
- Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Bullet MOPS 5900S + 5900C

Manual Overfill Prevention System (MOPS)
- Independent Alarm Panel
- High-High Alarm
- Rosemount 5900C Radar Level Gauge with Pressure Transmitter
- Verification Pin
- TankMaster Inventory Management Software
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub
- Analog, Relay or Digital Signal

Automatic Tank Gauging (ATG)
- Rosemount 5900S Radar Level Gauge with Pressure Transmitter
- Rosemount 644 with Single Point Temperature
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub
- Connection to TankMaster (optional)
- Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Bullet MOPS 5900S 2-in-1
Bullet MOPS 5900S + 5300 (chamber)
Bullet MOPS 5900S + 5300

Manual Overfill Prevention System (MOPS)
- Rosemount 2410 Tank Hub (optional)
- Rosemount 5300 Guided Wave Radar Level Transmitter
- Independent Alarm Panel
  High-High Alarm
- Connection to TankMaster (optional)
- Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

Automatic Tank Gauging (ATG)
- Rosemount 5900S Radar Level Gauge with Pressure Transmitter
- Rosemount 644 with Single Point Temperature
- TankMaster Inventory Management Software
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub
Bullet MOPS 5900S + 3308 (chamber)
Bullet MOPS 5900S + 2160

Manual Overfill Prevention System (MOPS)
- Independent Alarm Panel
- High-High Alarm
- Wireless Signal
- PLC / Scada / RTU / Safety System
- WirelessHART 1410/1420 Wireless Gateway
- Connection to TankMaster (optional)

Automatic Tank Gauging (ATG)
- Rosemount 2160 Wireless Level Switch
- Rosemount 5900S Radar Level Gauge with Pressure Transmitter
- Verification Pin
- TankMaster Inventory Management Software
- Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub
Manual Overfill Prevention System (MOPS)

Sphere Tank
Sphere MOPS 5900S + 5900S

Manual Overfill Prevention System (MOPS)

- Independent Alarm Panel
- High-High Alarm
- Analog, Relay or Digital Signal
- Rosemount 5900S Radar Level Gauge with Pressure Transmitter

Automatic Tank Gauging (ATG)

- Rosemount 644 with Single Point Temperature
- Verification Pin
- Rosemount 2230 Graphical Field Display
- Rosemount 5900S Radar Level Gauge with Pressure Transmitter

Connection to TankMaster (optional)

- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub

Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Sphere MOPS 5900S + 5900C
Sphere MOPS 5900S 2-in-1

Manual Overfill Prevention System (MOPS)
- Independent Alarm Panel
- Analog, Relay or Digital Signal
- Rosemount 2410 Tank Hub
- Connection to TankMaster (optional)
- Rosemount 2460 System Hub

Automatic Tank Gauging (ATG)
- Overfill Level
- Rosemount 5900S 2-in-1 Radar Level Gauge with Pressure Transmitter
- Verification Pin
- Rosemount 644 with Single Point Temperature
- Rosemount 2230 Graphical Field Display
- Rosemount 644 with Single Point Temperature
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub

TankMaster Inventory Management Software
Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)
Sphere MOPS 5900S + 3308
Sphere MOPS 5900S + 2160

Manual Overfill Prevention System (MOPS)

- Independent Alarm Panel
- High-High Alarm
- Wireless Signal
- PLC / Scada / RTU / Safety System
- WirelessHART 1410/1420 Wireless Gateway

Connection to TankMaster (optional)

TankMaster Inventory Management Software

Includes Visual & Audible Level Alert High and Level Alarm High-High (optional)

Automatic Tank Gauging (ATG)

- Rosemount 2160 Wireless Level Switch
- Rosemount 5900S Radar Level Gauge with Pressure Transmitter
- Verification Pin
- Rosemount 2230 Graphical Field Display
- Rosemount 2410 Tank Hub
- Rosemount 2460 System Hub