

Petroleum Tank Monitoring, Precision Reconciliation, And Inventory Management For The Global Market

Wherever in the world you are doing business, the Galaxy Petroleum Tank Monitoring and Inventory Management System from OPW can meet your requirements for wetstock management. Specially designed for use around the world for gas, diesel, and LPG applications, the Galaxy is available in numerous tank and leak sensor configurations. The system is available in many languages, and provides Precision Inventory Reconciliation with the optional Reconciliation Interface Module (RIM). Data from tanks, deliveries, and metered sales are collected to produce Precision Inventory Reconciliation Reports that enhance site management capabilities.

Language Capability

- Display (LCD), printer and software available in most languages, including English, French, Dutch, Spanish, Portuguese, Korean, Japanese, Chinese, and Russian

Fuel Management

- Optional Reconciliation Interface Module (RIM) compatible with most dispenser manufacturers
- Allows for input of individual tank chart to accommodate variations in local, non-standard tank manufacturers and increases inventory accuracy

System Configurations

- Available in 120 or 240 VAC as a standard unit
- Flexible system allows for 4, 8, 12, and 16 sensors configurations as well as 4, 8 and 12 tanks
- Capable of detecting leaks in product lines in 4 or 8 line configurations

Display and Printer

- Backlit liquid crystal display for easier viewing of information
- Optional graphic printer for languages requiring graphic characters (Chinese, Korean, Japanese and Russian)

Reports

- Delivery-gross/net
- Inventory
- Leak test history
- Last passed test
- Shift reports-gross/net
- Precision reconciliation reports-gross/net

- Tank Level Monitor alarm status
- Leak Sensor alarm status
- Event history
- System set-up
- Automatic alarm dial out
- Environmental alarm management

Diagnostics and Repair

- Continuously-running internal System Diagnostics detects equipment malfunctions
- Standard 250-event History Log includes Power On, Power Off, Alarm, and System Trouble events
- Galaxy system designed for simple field servicing and can be easily removed from wall mounting bracket for repair

Electrical Back-Up

- Standby Generator Tank support for Tank Level Monitor
- E² ROM storage of historical information
- Battery back-up of memory

Quality Assurance

- Underwriter's Laboratory (UL) listed
- CENELC listed



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System Specifications

■ Dimensions (with wall-mount bracket)	13"W, 16"H, 6"D 330 mm x 406 mm x 152 mm
■ Weight	25 lbs. (11.3 kg)
■ Operating Temperature	32° to 104°F (0° to 40°C)
■ Humidity	Non-Condensing
■ Typical Mounting Location	Non-Hazardous Indoor Area
■ Power Requirements	120/240 VAC ± 10%, 50/60 Hz.
■ Keypad	16-Key with tactile feedback
■ Display	Seiko G1216 LCD or 2 Line by 20-character Back-Lit Liquid Crystal
■ Printer	Thermal Printer Seiko DPU-411
■ Printer Paper	PN # 250-019
■ Communication Ports	2 standard RS-232 Ports 1-422/232 Port
■ Relay	1 Standard, 4 optional (10 amp)

■ Temperature Precision	± 0.0012° C (0.0021° F)
■ Level Accuracy	± 0.04% Full Scale
■ Temperature Accuracy	± 0.3° C (0.5° F)
■ Type	Magnetostrictive/Float Technology
■ Probe Length	Up to 50 Feet
■ Material	Stainless Steel Shaft or PVDF Flexible
■ Location	Class 1, Division 1, Group D EEx ia IIB T 4
■ Temperature Measurement	5 RTDs (spaced for equal volumetric measurement)
■ Temperature Range	-40° C to 70° C (-40° F to 158° F)
■ Data Cable	75 m or less (250' or less) Use Belden 8760 76 m to 304 m (250'-1,000') Use Belden 9182
■ Floats	Nitophyl 2.54 cm (1"), 5.08 cm (2"), 10.16 cm (4"), and Stainless Steel 5.08 cm (2") Stainless steel 5.08 cm (2")

Leak Sensor Specifications

Number of Sensors: Up to 16

Sensor Types:

EECO Discriminating-Type Leak Sensors:

- Q0003-001 Dispenser Pan
- Q0003-002 STP Sump
- Q0003-003 Interstitial (not available in Europe)
- Q0003-xx4 Monitoring Well Sensors

EECO Non-discriminating Sensors:

- Q0003-005 Wet Interstitial
- Q0003-006 Liquid Only Interstitial (not available in Europe)
- Q0003-009 Liquid Float Sensor
- Q0003-010 Vapor Sensor
- Q0003-013 Interstitial

Probe Specifications

■ Number of Tanks (Std.):	Up to 12 tanks
■ Probe Inputs	Intrinsically Safe Magnetostrictive, 1 or 2 Floats
■ Probe Power Supply	24 vdc
■ Level Precision	± 0.0013 cm (± 0.0005")

Galaxy

Leak Test Certification

- EPA Continuous Leak Test (SLD) Certified: 35,000 gallon tank (132,475 liters)
- EPA Continuous Leak Test (SLD) Certified: Manifold tank Configuration, Two Tanks equaling the sum of 35,000 gallon tank (132,475 liters)
- EPA Static Leak Test Certified: 15,000 gallon tank (56,781 liters)
- 0.76 lph (0.2 gph) Continuous Leak Test (SLD) 99.1% Pd, .9% Pfa
- 0.76 lph (0.2 gph) Static Leak Test 99% Pd, 1% Pfa
- 0.38 lph (0.1 gph) Static Leak Test 99% Pd, 1% Pfa

Line Leak Detection Specifications

- Number of lines: Up to 8
- Leak Testing

11.36 lph (3 gph) Hourly Monitoring	100% Pd 0% Pfa
0.76 lph (0.2 gph) Monthly Monitoring	100% Pd 0% Pfa
0.38 lph (0.1 gph) Yearly Monitoring	100% Pd 0% Pfa
 - Line Type

5.08 cm (2") Fiberglass to 106 m (350')
7.62 cm (3") Fiberglass to 45.5 m (150')
5.08 cm (2") Steel to 121.2 m (400')
5.08 cm (2") Flexible piping to 60.6 m (200')
 - Line Leak Sensor: EECO LLD Plus direct wired, intrinsically safe

LLD Plus Connected

- 451351-202 LLD PLUS, Connected INTRINSICALLY SAFE, 240V 2 Line
- 451351-302 LLD PLUS, Connected INTRINSICALLY SAFE, 240V 3 Line
- 451351-402 LLD PLUS, Connected INTRINSICALLY SAFE, 240V 4 Line



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