

Horizon™ Fluid Management Systems

Features and Benefits

- Allows multiple technicians to dispense simultaneously
- Easily configured and expandable for any facility
- Increases technician productivity
- Password-protected to prevent unauthorized dispensing
- Tracks inventory levels and alerts operators to low inventory conditions to minimize out-of-stock situations

Typical Applications

- Bulk-dispensing to multiple service bays
- Automotive dealerships
- Heavy-duty dealerships
- Fleet service facilities

Typical Fluids Handled

- Petroleum- and synthetic-based oils
- Anti-freeze

Technical Specifications

System Specifications

Control Modules on a System (1 Master only, plus 39 Slaves)	40 maximum
Keypads on a System (1 keypad per Control Module)	40 maximum
Solenoids on a System (40 Control Modules, 6 ports each)	240 maximum
Meters on a System (40 Control Modules, 6 ports each)	240 maximum
Fluids on a System	10 maximum
Dispense Areas (reel banks)	99 maximum
Operator Names / PIN Numbers	100 maximum
Dispense Records Stored	668 maximum
Simultaneous Dispenses (same and/or different fluids):	12 maximum
Jobs Waiting in Queue	12 maximum
Printer per System OR Attached Computer per System	1 maximum
(either must be connected to Master Control Module)	
Accuracy of System	±0.6%

Control Module Ports

Solenoid Ports (air or fluid) per Control Module	6
Pulse Meter Ports per Control Module	6
Port for Keypad per Control Module	1
Port for Printer or Computer per Master Control Module	1

Voltage Input

90-120 Volts AC, 50/60 Hz, single phase, 2 amps maximum draw	
208-240 Volts AC, 50/60 Hz, single phase, 1 amp maximum draw	
Operating Temperature Range	40 - 140° F (4 - 60° C) ambient
Pre-set or Free-flow Options	

Maximum Preset or Free-Flow Dispense	999.9 units
Minimum Preset Dispense	0.5 units

Units of Measure

Dispense	liters, quarts, gallons or pints (configurable for each fluid)
Inventory	liters or gallons (dependent upon dispense units chosen)

Maximum Cable Lengths

From Keypad to Control Module	50 ft (15.3 m)
From Solenoid to Control Module	50 ft (15.3 m)
From Pulse Meter to Control Module	50 ft (15.3 m)
From Printer/Computer to Master Control Module	50 ft (15.3 m)
From one end of the Control Module Network to the other end (daisy-chained)	2000 ft (610 m)

Reference Data

Instruction Manual	308607
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Ordering Information

Control Module drives air and fluid solenoids, and counts pulses from meters. On-board memory contains a map of available system resources, and a power supply that supports both 120 and 240 Volt AC operation. Combine one Master Control Module with up to 39 Slave Control Modules per system

238624 Master Control Module (one per system)

238625 Slave Control Module (up to 39 per system)

Keypads: Basic, Enhanced and Administrative

113551 Basic Keypad for navigating through the Horizon's menus

113553 Administrative Keypad is needed to set up and make changes to the system parameters

191368 Keypad Wall-Mounting Bracket

Air Solenoids open and close the air supply to the fluid pump air motor. Each solenoid can be up to 50 ft (15.3 m) from a Control Module. Up to 6 solenoids (air or fluid) can be connected to each Control Module

215407 For pumps requiring normal air flow (Mini Fire-Ball 225, 3:1 and Fire-Ball 300, 5:1)

512926 For pumps requiring higher air flow (Fire-Ball 425, 6:1 and 3:1)

Fluid Solenoids start and stop the fluid dispense cycles. These must be placed at each dispense point for each fluid being dispensed. Each fluid solenoid can be up to 50 ft (15.3 m) from a control module. Up to 6 solenoids (either air or fluid) can be connected to each control module. The low-flow model is available in a kit with a ready light which alerts the operator when the job is ready to dispense

215487 Low-flow: supports 3 gpm (11.4 lpm)

512927 Higher-flow: supports up to 6 gpm (22.7 lpm)

514150 Anti-Freeze Solenoid

218588 Low-flow Solenoid with Ready Light Kit

238996 Ready Light Kit (only; less the solenoid)

Pulse Meters measure fluid flow to dispense points and send a train of pulses back to the Control Modules which are counted to determine how much fluid has been dispensed. If there are multiple meters for a single fluid, check valves (111620) should be placed in series with each meter to prevent "cross talk" and oscillations. Pulse Meters can be used for either U.S. or metric units

238618 For oils, gear lube, automatic transmission fluid

215474 For anti-freeze

111620 Check Valve, 1/2 in

Thermal Relief Kits

235998 600 psi (41 bar)

102527 Thermal Relief Valve, 900 psi (62 bar)

237893 900 psi (62 bar)

240429 1600 psi (110 bar)

System Printer prints job tickets after each dispense is complete, plus has save function for later analysis

113774 Printer

514037 Printer paper, 1 roll

Keypad or Printer Cables

191393 25 Ft (7.6 M) cable with connectors

191394 Cable with connectors. 50 Ft (15.3 M)

Control Module Network

113559 500 Ft (152.5 M) bulk cable

113560 1000 Ft (305 m) bulk cable

Pulse Meter Cable

113555 Length: 500 ft (152.5 m)

113556 Length: 1000 ft (305 m)

Solenoids Cable

113557 Length: 500 ft (152.5 m)

113558 Length: 1000 ft (305 m)

Computer Cable with Connectors

192873 Computer I/O 25 ft (7.6 m)

192874 Computer I/O 50 ft (15.3 m)

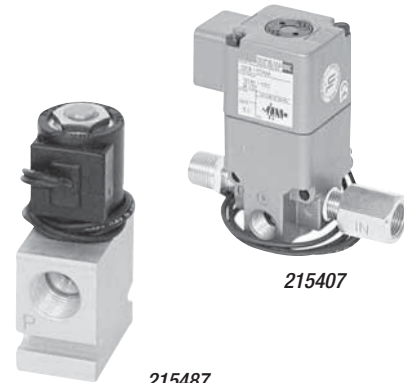


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