



# Multiload II SMP

## Product Overview

MultiLoad II SMP (Single Meter Preset) is a microprocessor based electronic preset designed for batch delivery of liquids. This economical package performs single-arm, straight product loading.

Capable of injecting up to two additives, MultiLoad II SMP is offered in two different enclosure options: Large Division 1 enclosure and Division 2 enclosure. MultiLoad II SMP can operate with an automation system or offer powerful features when operating in a stand-alone mode.



MULTILOAD II SMP

### Features:

- Full Color LCD Display
- Division 1 and Division 2 Enclosures
- Alphanumeric Keypad
- Integrated Card Reader Option
- Multi-Drop Communication Ports
  - 1-RS-232,
  - 1-RS-485
  - 1-RS-232-/485 (User Selectable))
- Serial Communication Ports (3)
- 10/100 Mb Ethernet Port
- Metered Additive Injection, Supporting Two Injectors
- Automatic Temperature and Pressure Correction
- Event Log and Metrological Audit Trail
- Four-point Linearization
- Automated Proving
- Multi-lingual Support
  - » Mandarin, English, French, Portuguese & Spanish
- Up to 300 Driver IDs/PINs in Stand-alone Mode
- Stores 10,000 Transactions in Stand-alone Mode
- Automated Proving
- User Configurable Operating Parameters Custom Logic

### Applications:

The SMP is ideally suited for batch loading of liquids, where legally relevant metrology is required and used in:

- Terminals
- Bulk Plants
- Ethanol Processing Facilities
- Aviation Loading
- Chemical Plants
- Shipping Docks
- Fleet Refueling
- Barge Loading
- Chemical Loading
- Also supports loading of gasoline, alcohol, LPG, LNG, fuel oil, chemicals and more.

## Specifications

### Operating Temperature:

-25°C to 60°C (-40 ° C with Optional Heater)

### Digital Inputs and Outputs:

Digital I/O Count (13)

- A/C Output (5) +85-250 Vrms, 0.5A
- DC Input (5) +5-30 Vdc
  - Dual Channel Flow Meter Input (0-5000 Hz)
  - Single Channel Flow Meter Input (0-10 KHz)
  - Three Inputs for Miscellaneous Signals
- DC Output (3) +0-30 Vdc, 0.6A
  - +12 Vdc Supply for pre-amps/pulsers, 2W, Isolated

### Analog Inputs and Outputs:

RTD Input (1)

- 100 Ohm Platinum, 4-wire
- Coefficient 0.00385 Ω/Ω/ ° C
- Accuracy: +/-0.05 ° C & 24 Bit AD

Analog Input (1)

- 4-20mA, +/-0.25%
- 24 Bit ADC

Analog Outputs (1)

- 4-20mA, +/-0.25%
- 16 Bit DAC

### Instrument Power:

- AC: 85-250 VAC, 47-63 Hz, 300-150 mA
- DC: 18-36 Vdc, 600 mA

### Communications Ports:

- Serial Ports (3)
  - RS-232 (1)
  - RS-485 (1)
  - Selectable RS232/485 (1)
- 10/100 Mb Ethernet (1)

### Approvals

- UL Listed Class 1
- Division 1
- Groups C & D
- ATEX Certified Group IIB (Category 2G)

### Electromagnetic Compatibility:

Complies with Electromagnetic Compatibility Requirements:  
° 61000-6-2, IEC 61000-6-4

## SMP Enclosure Options



### EXL Enclosure (Division 1)

#### Features

- Full Alphanumeric Keypad
- 5.7" (Diagonal) Color Display
- Integrated Card Reader Option

#### Dimensions

- 11.5" x 11.5" x 6"
- 289mm x 289mm x 151mm

#### Compliance Information

- Class I, **Division 1**, Groups C & D
- Inmetro Certified
- ATEX Group IIB, Category 2G
- IECEx Group IIB, Category 2G



### Division 2 Enclosure

#### Features

- Full Alphanumeric Keypad
- 8.4" (Diagonal) Color Display
- Integrated Card Reader Option

#### Dimensions

- 18" x 12.25" x 5"
- 459mm x 311mm x 125mm

#### Compliance Information

- Class I, **Division 2**, Groups C & D
- CE Marked
- ATEX Group IIB, Category 3G