



Product Description

The BLENDTECH MARK V SMART ADDITIVE INJECTOR unit is a modern electronic microprocessor based injector package designed for use in a variety of chemical additive applications. The unit is suitable for indoor or outdoor use

Features

System Description

The MARK V SMART ADDITIVE INJECTOR package processes and displays the data required for accurate control of additive injections. The MARK V unit normally operates as an intelligent slave to the main product transfer system but can also operate as a stand alone unit.

When enabled, the MARK V unit monitors the main product flow meter and causes the additive to be injected in proportion to the main product flow. Control of the additive is accomplished by a solenoid operated flow control valve. Should the MARK V unit be unable to maintain the required injection rate, an alarm is generated and the "permissive" output circuit is turned off.

The MARK V is capable of producing up to sixteen different product blends.

The MARK V unit maintains it's own internal calibration factors for both the main and additive flow meters and all user changeable parameters in nonvolatile memory in the MARK V unit. These parameters may be changed via the unit's front panel or through a RS-485 serial channel or via the IrDA communications link. The RS-485 party line and IrDA communications circuits permit monitoring and control of the MARK V unit. The MARK V is compatible with BLENDTECH's BlendCOMM Management and Control Software Package.

The MARK V uses the FLEx iO input output signal structure. All digital inputs and outputs are completely user configurable. Over 250 signals can be assigned to nine inputs and six outputs. Four outputs use industry standard, colour coded, optically isolated, fuse protected, solid state relay modules. Five FLEx iO Auxiliary IO are also available for special operation and control functions.

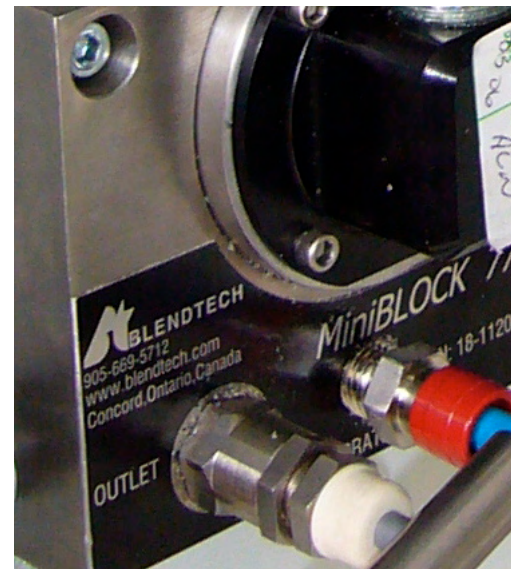
The MARK V is configured with a 2 line 16 character vacuum fluorescent display, suitable for low temperature operation. The display supports multi-language operation.

Model MKI 7718

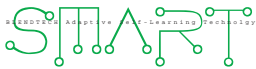
- For low dosage applications
- Flow rate 0.03 to 0.30 GPM (0.12 to 1.20 lpm) at 1 cSt.
- Maximum operating pressure 300 psig
- Maximum differential pressure 145 psig
- High pressure solenoid available
- Accuracy 0.25 to 0.50 % of flow.
- Nominal Meter K_f 6000 ppg (1585 ppl)
- 0.3 GPM (1.2 lpm) @ 1cSt

Model MKI 7738

- For most typical additives.
- Flow rate 0.3 to 3.0 GPM (1.2 to 12.0 lpm) at 1 cSt.
- Maximum operating pressure 300 psig
- Maximum differential pressure 145 psig
- Accuracy 0.25 to 0.50 % of flow.
- Nominal Meter K_f 2600 ppg (687 ppl)
- 3 GPM (12 lpm) @ 1cSt



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Key Features

- Clean starts - no contamination
- Additive totals
- Additive pulse output
- Supports a variety of flow meters
- Accepts flow meter pulse rates up to 15kHz.
- Error checking and alarm generation
- Provides for calibration of each flow meter pulser
- Pump control for additive
- Additive Overtreat
- Flushing at end of load
- Nonvolatile memory



Optional iRDA Key Fob

Specifications subject to change without prior notification

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Technical Specifications

Electrical Power Supply

Option 1:
115/220 VAC, 60/50 Hz, 50 Watts

Option 2:
12V - 24V DC, 20 Watts

Digital Inputs

7 FLEX iO DC Inputs
2 High Speed FLEX iO Inputs with a
15kHz. maximum count rate

Type:
Dry contact closure (TTL compatible)
Max. open circuit voltage 5V DC
Max. short circuit current 1 mA
Will accept 12V logic level signals

Digital Outputs

2 High Speed FLEX iO Digital Outputs
Type:
Optically isolated darlington outputs
30 mA maximum 50 VDC open circuit
voltage

AC Outputs

4 Standard FLEX iO Outputs
Type:
Industry standard 120 VAC, colour
coded, optically isolated, fuse protected,
solid state relay modules

Optional Output Modules:

- 240 VAC Black
- 3V to 60V DC Red

Communications

- RS-485 data two wire communications
- Infrared send and receive data link
- MODBUS Available

Display

Multi-language - 16 character, 2 line
alpha numeric VFD

Environment

Unit suitable for indoor or outdoor use
with appropriate enclosure

Safety

All solid state design
No open electrical contacts

Mechanical

- 3/8" FNPT inlet and outlet port connections.
- Swagelok quick-connect fitting with dust cap on calibration port (316 L).
- Integrated basket screen strainer 230 micron (60 mesh).
- Check valve on output port 1psig cracking pressure.

Performance:

10:1 turndown
Minimum injection size of 2cc

Operating Pressures

300 psi maximum
40 psi minimum differential
100 psi maximum differential

Materials of Construction

Option 1:

Manifold and meter body 304 Stainless Steel.

Option 2 (special order):

Manifold and meter body High Strength Aluminium.

All wetted seals teflon or Chemraz.

Meter Gears 300 series stainless.

Options

- Calibration Kit (recommended)
- Thermal Relief Kit (for dye applications)

Hazardous Areas

Option 1:

System UL / CSA Approved for Class I,
Group D, Zone 1 Hazardous Areas.

Option 2:

KEMA 07 ATEX 0009 EEx d, m IIA T3
CE Approved



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