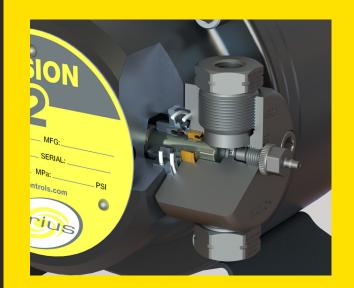
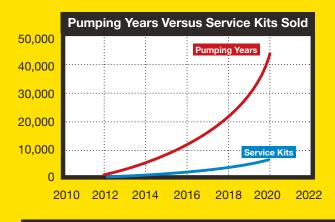




ENGINEERED FOR LONG LIFE AND LOW MAINTENANCE (FIVE TIMES THE LIFE OF THE ORIGINAL FUSION TECHNOLOGY)

Unique dual-seal technology overcomes the many shortcomings of adjustable packing designs. Maintenance is greatly reduced and chemical capability improved.



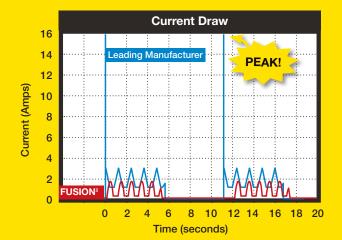


OVER 4 PUMPING YEARS PER REBUILD! (ON AVERAGE)

SIMPLEST AND FASTEST REBUILD AVAILABLE





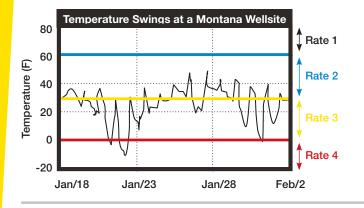


NO MORE MOTOR BRUSH FAILURES!

REDUCED SYSTEM MAINTENANCE AND REPAIR

The brushless, soft starting motor eliminates inrush currents which reduces mechanical stresses and extends motor, pump, and battery life. The Fusion² has 1/10 the startup current of the leading pump provider, with 500,000 fewer current spikes per year

AUTOMATION AND CONTROLS LIKE NO OTHER PUMP

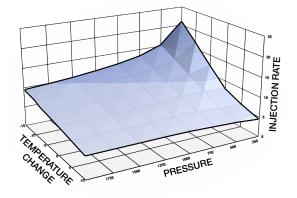


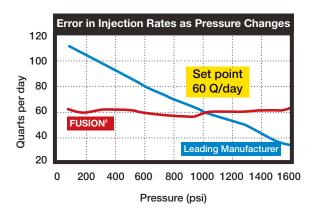
SIMPLE CONTROL

As an example, simple control can be used to conserve methanol on warmer winter days while preventing freeze ups on the coldest nights with Fusion²'s 4-zone temperature control. Flow rates automatically adapt to recurring temperature swings.

ADVANCED CONTROL

The Fusion² controller accepts many inputs for pump control, which can be as straightforward as a proportional rate control from an external sensor. A more sophisticated approach would be to use an equation driven hydrate curve analyses; such as, the Hammerschmidt or Gas Gravity method, along with multiple sensor inputs, to determine the variable injection rate.





AUTONOMOUS CONTROL

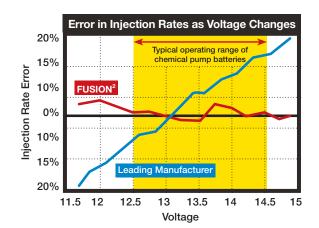
VARYING PROCESS PRESSURE CAN SIGNIFICANTLY AFFECT THE ACCURACY OF CHEMICAL INJECTED

Fusion² compensates for process pressure fluctuations using patented pressure sensing technology to maintain a steady flow rate. The graph to the left compares Fusion²'s performance against that of a leading pump manufacturers.

VOLTAGE FLUCTUATIONS AFFECT INJECTION RATE

Solar powered injection system will experience daily battery voltage fluctuation due to day/night cycles, as well as longer term voltage fluctuations with changing seasons, weather and cloud cover.

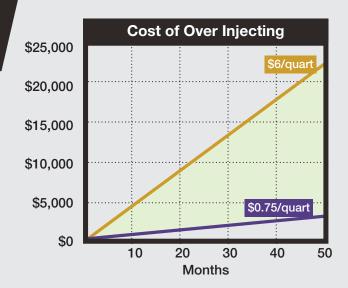
A typical pump's injection rate varies directly with voltage and under normal weather conditions can generate an error exceeding 25%. Fusion² keeps the rate consistent using the patent pending voltage compensation feature.



SAVE & STOP OVER MONEY & STOP OVER INJECTING

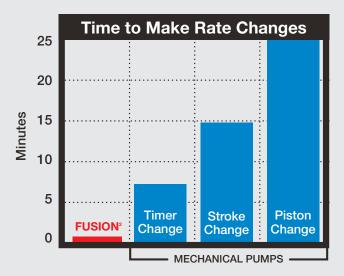
When you consider the cost of ownership of low dollar inaccurate pumps they are generally very expensive.

Inaccurate pumps force operators to over inject chemical by an estimated 20% to ensure that minimum safe injection rates are met. Using the Fusion² will provide the confidence to dial back the over-injection. Even at relatively low flow rates and chemical costs, Fusion²'s payback period is typically less than one year, not including the additional benefits.



SAVE & REDUCE TIME MONEY & REDUCE ON SITE

- No mechanical adjustments are necessary
- A single button is used to make rate changes
- Self guided pump calibration



SAVE & LOWER INVENTORY



The Fusion²'s wide operating range and AC/ DC power capabilities reduces the need to carry inventory for multiple pump models. Maintenance is made simple with minimal need to carry multiple pistons, seals, and fluid ends.

The Fusion²'s CONTINUOUS INJECTION RATES maximize

ATOMIZER EFFICIENCY

Proper Operation



Inconsistent Rate



On board MPPT high efficiency solar controller	Industry Leading
Rate control directly in volume per day (Q/day, L/day, G/day)	
Injection Totalizer used to verify volume, carbon credits etc.	
Ability to calibrate to volume per day	Industry Leading
Automatically adjusts flow rate for pressure fluctuations	PATENT PENDING
Batch injection	
Four temperature zones for varying rate control	Industry Leading
Dual flow rate control	 Image: A start of the start of
Independent multipoint rate control, up to 15 points	Industry Leading
Automatically compensates for voltage changes due to day night variation etc.	PATENT PENDING
One button easy rate change	 Image: A start of the start of
Real time flow rate measurement (with optional closed loop)	Industry Leading
In house firmware development and rapid customization	Industry Leading
Power Source is either AC or DCsame pump, motor, and controller	Industry Leading
Continuous and intermittent variable speed	Industry Leading
Auto transition from continuous injection to duty cycle rate control	PATENTED
Turndown Ratio 1000:1	Industry Leading
Area classification: General Purpose and Hazardous Location Rated	Industry Leading
Operating temperature -40°F (-40°C) to 131°F (55°C)	Industry Leading
COMMUNICATION AND CONTROL	
Wifi and cellular cloud service	Industry Leading
MODBUS communications, RS-485	
4-20 mA rate control	×
Individual point enable/disable	 Image: A set of the set of the
Three analog inputs for temperature	Industry Leading
Three analog inputs for pressure, tank level, etc	Industry Leading
Four digital inputs for injection enable	Industry Leading
Four digital inputs for batching	Industry Leading
Sixteen digital outputs for pump on, low battery, flow control	Industry Leading
Support for MODBUS TCP	~
Communications watchdog (disable on comm fail)	 Image: A set of the set of the
Flow verification alarm, tank level, low power etc.	Industry Leading
DIAGNOSTIC AND PROTECTION	
Electronic pump protection switch	PATENT PENDING
Electronic pressure estimation	PATENT PENDING
Highly enhanced logged diagnostics	Industry Leading
Current protected voltage output for powering 4-20 mA loops, pressure sensors, tank gauges, etc.	Industry Leading
Over current protection	✓
Current controlled start/stop	

FEATURES

FUSION^{2[™]}

The Fusion2 is the industry's first injection system with

ONE BASIC PRODUCT ARCHITECTURE

that services both AC and DC solar powered sites, as well as GENERAL PURPOSE and HAZARDOUS ENVIRONMENTS. Users can move from site to site and always be familiar with the operation of the product.

<complex-block></complex-block>	<image/>	Tread cellular service
PUMP TYPE	INJECTION RANGE	MAXIMUM OPERATING PRESSURE
Fusion ² 100 (NEW)	0 – 1,300 Q/day (1,230 L/day)	1,000 psi (0.7 MPa)
Fusion ² 150	0 – 100 Q/day (95 L/day)	1,500 psi (10.5 MPa)
Fusion ² 300	0 – 360 Q/day (340 L/day)	3,000 psi (21 MPa)
Fusion ² 500	0 – 240 Q/day (227 L/day)	5,000 psi (35 MPa

CONTACT

Contact Sirius for all your chemical injection requirements at **sales@siriuscontrols.com** Toll Free: **1.866.436.6301**

www.siriuscontrols.com



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