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ДОЗИРУЮЩЕЕ ОБОРУДОВАНИЕ

Технические характеристики на

Fusion4 BioBlend



Overview

Zero in on Accuracy

The Fusion4 BioBlend system is designed to facilitate a precision blending capability for the downstream petroleum and petrochemical refining, storage and distribution sectors. The solution is fully compliant with the EU Measuring Instruments Directive (MID) and features a unique blending algorithm that helps companies achieve the highest blending accuracy to reduce off-spec blends, and the associated costs. This highly configurable Fusion4 solution not only increases accuracy, but is also faster and easier to configure and maintain.

Common applications

- Ethanol
- Bio-Diesel
- Methanol
- Butane
- De-naturants
- Cold flow enhancers
- Markers & Dyes
- Liquid fertilisers

Benefits

Rapid Start-Up

The device can now be configured from new, in less than 45 seconds, utilising the LAD configuration upload facility

Zero Downtime Firmware Upgrades

Firmware updates can be implemented 'live', with the LAD, eradicating the need to power down, open, and exchange EPROM's in the SSC.

Multiple Languages

User selectable for English (US), English (UK), Chinese, Japanese, French, Spanish, Portuguese, Italian, Dutch, German and Polish.

Huge Transaction Archives

The SSC can store 10,000 transaction logs, 128 alarm logs and 100 calibration logs.

Calibration Wizard

Allows the automatic capture of every calibration transaction carried out on the device, including time stamp, calibration volumes, k-factor corrections and even meter serial numbers.

Diagnostics Dashboard

Enables complete device hardware monitoring from a single screen, allowing the immediate analysis of any monitored functions, such as digital and analogue I/O, meter pulsers and RTD's.

Expandable I/O

An additional 'Option' card can be added to the electronics stack to enhance functionality with analogue I/O, RTD, and additional Comm. Port and digital I/O.

The Perfect Blend

The Fusion4 BioBlend system combines the Fusion4 SSC (single stream controller) with application specific, designed blend streams. Each stream provides all of the key elements required to accurately meter and control the blend stream flow, whilst the SSC implements precision control of the blend ratios, monitoring alarm parameters and reconciling totals.

Also available to accompany the Fusion4 MiniPak is the new Fusion4 LAD (Local Access Device). The device is a handheld controller used for interfacing with all Fusion4 products, and enhances the functionality available from the standard IR controller. The LAD facilitates two way data communications between the Fusion4 SSC and the LAD, allowing the rapid, secure transfer of transaction data, configuration files and calibration records and even the 'live' upgrading of firmware while in the field.

Advanced Alarm Handling

Monitoring nearly twice as many injection control parameters than any other device, the SSC utilizes the enhanced graphics capability of the 3.5" QVGA full colour screen to clearly annunciate and differentiate all alarm conditions.

Flexible Interfacing

Interfacing can now be carried out via the Fusion4 IR Controller, the Fusion4 LAD (local access device), and the Fusion4 Portal software package, in addition to the standard communication protocols such as modbus.

Configurable I/O

Flexible configuration can be achieved through the 'Binding' menu, which allows the assignment of functions to any input or output.



Features

Arrangements

The Fusion4 BioBlend system is offered with optional frame arrangements to support a user definable number of blend streams. The dual frame can be equipped with up to two streams. The quad frame may be equipped with up to four streams. Customer specified arrangements not covered by the modeling code, e.g. larger size blend streams, please contact your local sales office.

Blend Product Supply

The Fusion4 BioBlend requires a pressurised product supply. Typical blend product supply pressure 10 bar / 150 psi. Maximum supply pressure 15 bar / 225 psi. Typically 2 bar / 30 psi differential pressure is required across blend product supply & main product flow.

Filtration

The Fusion4 BioBlend is available with optional filter/strainer, supplied loose, for client field pipe-work installation.

Valve Control – Self Actuated (ATEX ONLY)

The Fusion4 BioBlend is available with 'self actuated' valve control, as standard. The pressure drop across a self actuated blender is up to 3.5 bar.

Valve Control – Hydraulic Power-Pak

The Fusion4 BioBlend is available with a hydraulic power-pak for valve control. The HPP stabilizes valve control pressure, eradicating issues such as higher viscosity products (over 500 cst) and reducing the pressure differential required across the blender (1 bar / 15 psi). The unit is also available with an optional hygroscopic breather to prevent water ingress.

Volume Correction

Temperature compensation option is available with various combinations of pre-installed temperature transmitters or RTD's. Compensation is available for commodity groups A, B, C, D, E and Fame, utilising standards ASTM D 1250-04, ASTM GPA TP-27 (2007) and EN 14214 (2008).

Pressure Monitoring

Optional pressure transmitters are available to facilitate high and low pressure monitoring of each blend stream.

Proving Connections

To aid calibration of the Fusion4 BioBlend, optional proving connections are available pre-installed downstream of the blend unit. A single connection for 'volumetric' proving or dual connections for 'master meter' proving.



Fusion4 LAD (local access device)

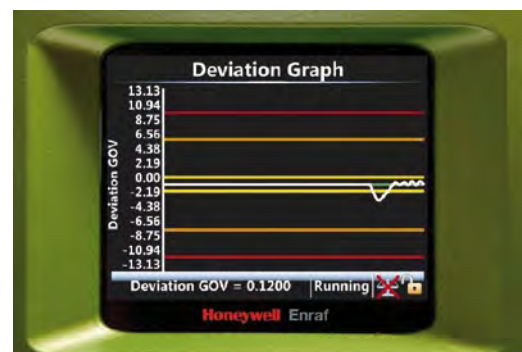
The handheld LAD is used to interface with the Fusion4 SSC, allowing tasks such as the adjustment of parameters, resetting of alarms and calibration of the blender. The device facilitates two way data communications between the SSC and the LAD, allowing the rapid transfer of transaction data, configuration files and calibration records and even the upgrading of firmware while in the field. The LAD contains a removable SD card to allow safe area transfer of data.

Fusion4 IR Controller

The hand-held Infra-red remote controller is used to interface with the Fusion4 MiniPak, allowing tasks such as the adjustment of parameters, resetting of alarms and calibration of the injector.

MID Compliance (ATEX ONLY)

The Fusion4 BioBlend is available with optional EU Measuring Instrument Directive (2004/22/EC) compliance. This enables the system to be used for all EU weights and measures approved, custody transfer applications.



Technical specification

| Approvals | SSC | Meter Sensor | Solenoids |
|-----------|---|------------------------|----------------------------|
| ATEX | : II 2 G Ex d [ia] IIB T6 Gb | II 2 G Ex d IIB T6 Gb | II 2 G Ex m II T3/T5 Gb |
| IECEX | : Ex d [ia] IIB T6 | Ex d IIB T6 Gb | Ex m IIC T3/T5 Gb |
| FM/UL | : FM Class1 Div1 Group C&D T6 | Class1 Div1 Group D T4 | Class1 Div1 Group ABCD T3A |
| CSA/CUL | : Class1 Div1 Group C&D T6 Zone 1 Ex d [ia] IIB T6 | Class1 Div1 Group C&D | Class1 Div1 Group ABCD T3A |

| Flow | |
|---------------------|---------------------------|
| Flow Range | : 3 - 150 GPM (12-565LPM) |
| Nominal K-Factor | : 384 PPG (101 PPL) |
| Meter Accuracy | : ± 0.25% |
| Meter Repeatability | : ± 0.05% |
| Pressure Drop | : 15 psi |
| Max Pressure | : 16 bar |
| Viscosity Range | : 0.5 - 300 cSt |

| Environmental | |
|-----------------------|--|
| Operating Temperature | : -4 °F to +150 °F (SSC -40 °F to +150 °F) |
| Storage Temperature | : -4 °F to +184 °F |
| Protection Class | : IP66 - NEMA 4X |
| Humidity | : 5% - 95% Non-Condensing |

| Materials | |
|---------------------------|---|
| SSC Enclosure | : Aluminum, Chromitized (class 3) |
| Meter | : Casing - 316 SS, Gears, Ryton |
| Meter Components | : Bearings - Carbon, Seals - PTFE |
| Control Valve | : Casing - 304 SS, Ball Vv - 304 SS, Seals - PTFE |
| Actuator (Hydr Power Pak) | : Body - Aluminum, Piston - Aluminum |
| Control Manifold | : Body - 316 SS, Seats - SS |
| Solenoid Seals | : PTFE |

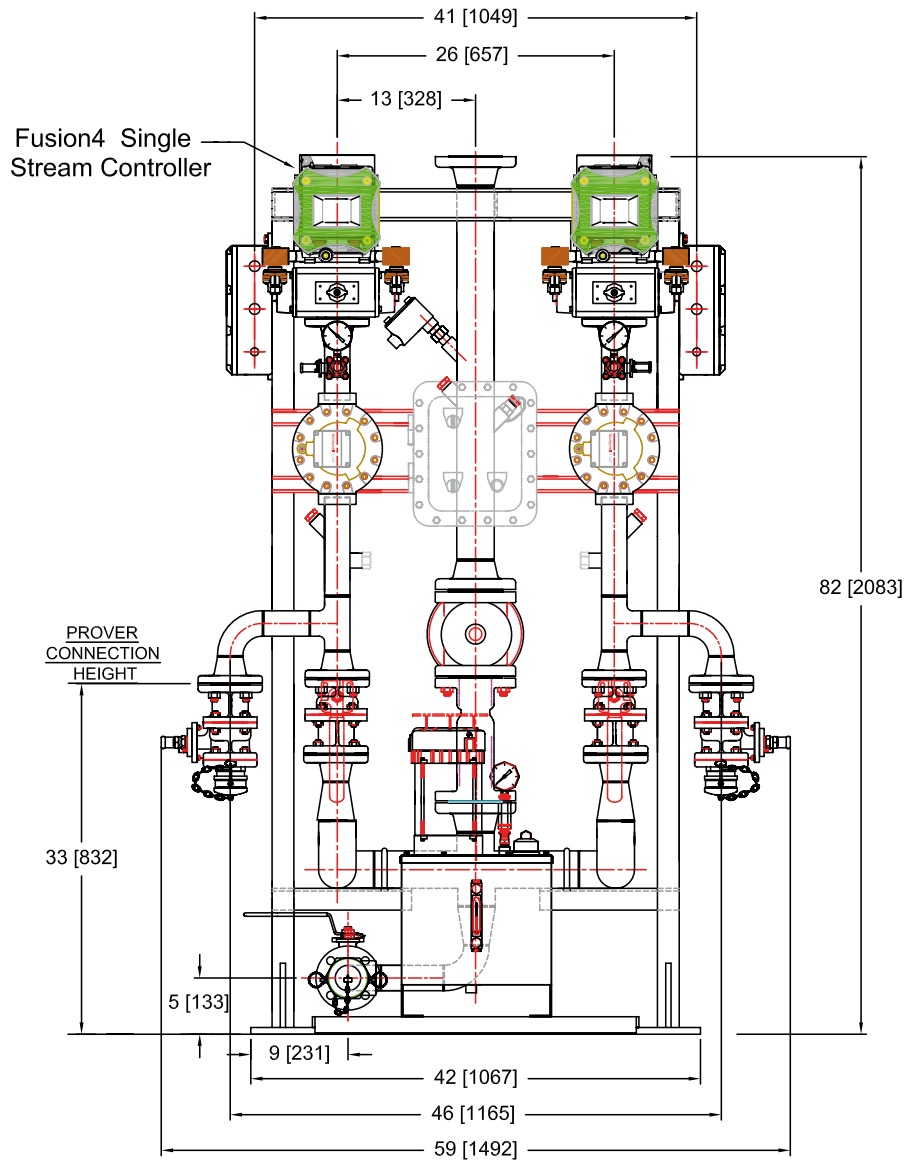
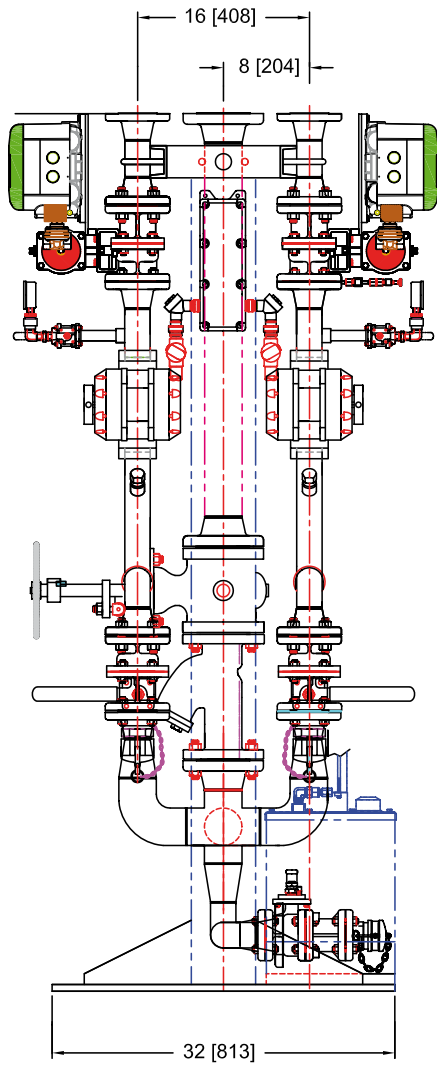
| Electrical | |
|------------------------|---|
| Cable Entries (vacant) | : 4 x 1" NPT |
| Voltage | : 88 to 264 VAC |
| Flowmeter inputs: | : 1x 5 kHz Dual input, 1 x 5 kHz Single input |
| DC Inputs | : 2 x configurable |
| AC Inputs | : 2 x configurable |
| DC Outputs | : 2 x configurable |
| AC outputs | : 3 x configurable |
| Communications | : 1 x 2 wire or 4 wire RS485 |

| Option Card | |
|-----------------|---|
| RTD Input | : 1x PT100 type, 3 or 4 Wire |
| DC Inputs | : 2 x configurable |
| AC Inputs | : 4 x configurable |
| Analogue Input | : 1x 4-20 mA configurable passive or active |
| Analogue Output | : 1x 4-20 mA configurable passive or active |
| AC outputs | : 2 x configurable |
| Communications | : 1 x 2 wire RS485, |

| Interfaces | |
|------------------|--|
| Protocols | : Modbus RTU, FlexConn, FMC Smith, Brooks Petrocount |
| Display | : 3.5" QVGA colour TFT LCD screen |
| Languages | : English (US), English (UK), French, German, Spanish, Dutch, Chinese, Japanese, Polish, Italian, Portugese. |
| Handheld Devices | : Fusion4 LAD (local access device), Fusion4 IR Controller (Infra Red) |

| Mechanical | |
|-------------|------------------------------------|
| Connections | : ANSI class 150 RF Flanged |
| Filtration | : Optional 80 mesh Basket Strainer |

General Arrangement



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