



The Micro-Blend™ System is an intelligent Blend Controller which makes use of the latest advancements in microprocessor technology to bring unparalleled accuracy to blending applications.

Micro-Blend™ System

The Micro-Blend System utilizes two product streams, the monitored stream is referred to as the Wild Stream, and the controlled stream is referred to as the Blend Stream. The Micro-Blend controller monitors the Wild Stream and controls the Blend Stream to the programmed blend ratio. The Micro-Blend Controller is designed to be cost effective and simple to operate, yet provide control accuracy previously only found in expensive and complicated systems.

Features

- Blend Stream product factored pulse output
- Wild Stream and Blend Stream product totals
- User-definable alarm conditions
- Smith (Type I), Brooks (Type II) and Modbus (Type IV) Protocol
- Infrared Hand-Held Controller
- EIA 485 (2-wire) communications at 1200/2400/9600/19,2000 baud
- Backlit LCD (Liquid Crystal Display) with 2 lines by 14 characters
- Internal watchdog low power protection
- 4 levels of password security (8 users definable)
- Built-in proving preset

Applications

- Water based or Solvent based Blending
- Oxygenate Blending
- Mid-grade Blending
- Marine Oil Blending
- Analytical Blending
- Asphalt Blending
- 1 GPM - 3000 GPM

Electrical Inputs

- AC Instrument Power: 120/240 VAC +/- 15%, 48 to 63Hz., 1.0A maximum or 240 VAC +/- 15%, 48 to 63 Hz
- Current Consumption: <50 mA. @ 120 VAC / <25 mA @ 240 VAC
- AC circuitry is fuse protected (Does not include inputs or outputs)
- Surge current 10A maximum for less than 0.1 seconds
- One (1) Optically isolated, AC solid state triac input (permissive input)
- Load voltage range: 90 to 280 VAC , 48 to 63 Hz.
- Steady state load current range: 0.05A (rms) minimum to 5A (rms) maximum into an inductive load
- Leakage Current @ Maximum Current rating: 100 microamps maximum @ 240 VAC
- Duty Cycle: 40/60 to 60/40 (on/off)

Pulse Input

(Pulses per Gallon / Liter / etc.)

- Type: DC
Maximum Pulse Rate: 5 KHz
- Minimum 10 pulses per unit

Electrical Outputs

- Three (3) Optically isolated, AC solid state triac outputs (2 used for digital valve control - 1 for alarm output)
- Load voltage range: 90 to 280 VAC , 48 to 63 Hz.

- Steady state load current range: 0.05A (rms) minimum to 5A (rms) maximum into an inductive load
- Leakage Current @ Maximum Current rating: 100 microamps maximum @ 240 VAC
- Duty Cycle: 40/60 to 60/40 (on/off)

Pulse Output

- Open Collector Transistor
- 1, 1/10th, 1/100th, 1/1000th unit volume, or unfactored pulse output available

Display

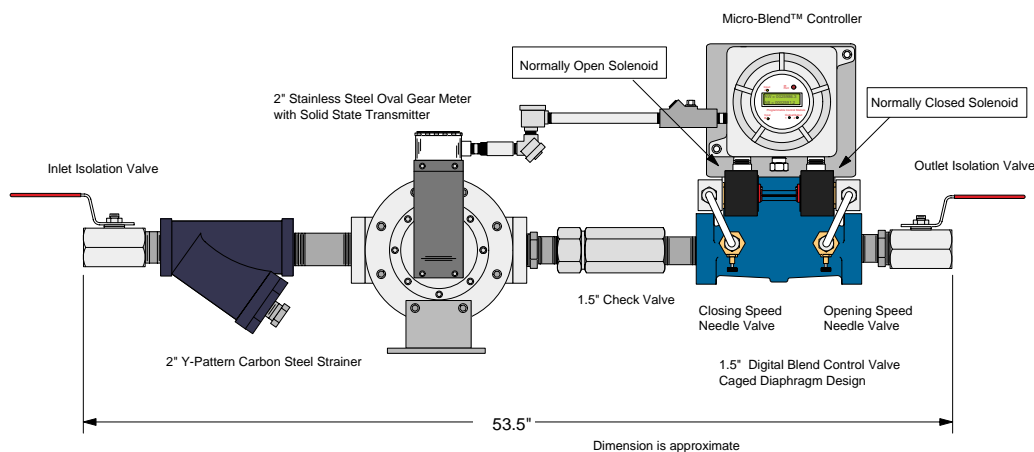
- Module Format: 2 Line by 14 position display
- Type: Liquid Crystal Display Backlit
- Character Format: 5 by 7 dot matrix type

Environmental

- Ambient Operating Range: -40°F to 150°F (Display may appear slow at temperatures below 0°F)
- Humidity: 5 to 95% without condensation

Communications

- General Configuration: Multidrop Network. 32 Micro-Blend™ Systems may be connected to the same host
- Data Rates: 1200/2400/9600/19,200 Baud rate supported
- Data Format: 8 data bits/No parity/1 stop bit
- Type: Interfaceable with EIA-485 (2-wire) data communication standard



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