

JISKOOT InSight Blender Controller



Introduction

Cameron's JISKOOT™ InSight blender controller provides the best solution for blending applications. Based on a modular design, it is ideal for 2 to 8 stream applications and when rack mounted can be expanded to a maximum of 40 streams. The InSight performs controlled rate, batch, and wild stream blending. It can perform line flushing to minimize product contamination, and analyzer inputs can be incorporated to provide quality optimization.

The InSight is so named for its touchscreen interface, which both is easy to use and offers sophisticated configuration options for supervisors and engineers. It can be configured using a simple menu structure with clear prompting and is aided by a context-sensitive help. The InSight blender controller offers diagnostic facilities with four levels of security and can be fully configured from the front panel. System configurability is further enhanced by the use of a wireless infrared link, which allows configuration, reporting, and operation from a suitable Windows PC.

The InSight blender controller uses a real-time, 32-bit, multitasking operating system and is designed to be operated either stand-alone or integrated as part of a Distributed Control System (DCS). The controller supports Allen-Bradley and Modicon Modbus protocols and has two serial ports as standard, offering either RS232, RS422, or RS485.

Features

- Operator friendly
- Configurable for multi-pipe layouts
- Designed for easy DCS integration
- 200 recipe memory
- Self-tuning for accurate batching
- Easily cleaned screen
- Automatic ramp up and down in response to flow conditions
- Full diagnostics
- Performs valve and pump status checks
- Supervisor override at all times
- Performs IP 200/API 2540 temperature compensation

Instrument Specifications

Accuracy	Calculation	IEEE 32 bit floating point
Touchscreen	Viewing Area Resolution Resolution Keys	126 mm x 70 mm (H x W) 240 x 128 pixel with fluorescent backlight Software defined with audio confirmation
Status Indication	Front Panel LEDs Alarms	Power – System Running – Security Status – Watchdog Timer – Alarm Status Software user-defined
Number I/O Cards	Standard Instrument	Two maximum
Power	Voltage Frequency Consumption Output	110 to 240 VAC 50 to 60 Hz 40 watt to typical 24 V fused at 250 mA
Environment	Temperature Range Humidity	41° F to 104° F (5° C to 40° C) 5% to 90% (non-condensing)
Dimensions	Instrument Panel Cutout	146 mm x 286 mm x 355 mm (W x H x D over connectors) 282 mm x 137 mm
Standards	Manufacture	The InSight blender controller is manufactured in accordance with ISO 9001

I/O Card Specifications (each card)

Analog Inputs	Quantity Input Type Accuracy Input Level Current Load Configuration Protection	Eight Differential 16 bit A-D 4 to 20 mA 50 Ohm Software user-defined Surge and ESD protected
Pulse Inputs	Quantity Input Input Voltage Logic Threshold Frequency Range Configuration Protection	Four Differential current or voltage pulse 0 to 24 VDC or 4 to 20 mA Software user-defined 2 to 12 V 0 to 10 KHz Software user-defined Surge, ESD, and reverse polarity protected
Analog Outputs	Quantity Output Accuracy Load Configuration Protection	Four 4 to 20 mA > 5µA 500 Ohm maximum Software user-defined Surge and ESD protection
Digital Event I/O	Quantity Type Configuration Input Level Output Level Protection	16 Bi-directional Software user-defined for either Input or Output 24 VDC at 0.5 mA 24 VDC at 100 mA maximum Opto isolated and fused
Serial Ports	Quantity Protocols Connection Protection *Modbus® TCP over ethernet available with optional serial-to-ethernet converter	Two per I/O card RS232 (DTE) – RS485 – RS422 9 pin 'D' type ESD protected
Watchdog	Type Output Type Time Out	Continuity N/C – solid-state volt-free contact; open on alarm 1.6 seconds

LOCATIONS

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