



InSight

Blender Controller

Data Sheet SS062-0504-3 • InSight Blender Controller

Introduction

The InSight Blend Controller provides the best solution for blending applications. Based on a modular design it is ideal for 2-8 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 minimise product contamination and analyser inputs can be incorporated to provide quality optimisation.

Features

- EMC compliant
- 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 IP200/API2540 temperature compensation

The InSight is so named for its touch screen interface which is both 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 Blend 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 infra red link which allows configuration, reporting and operation from a suitable 'Windows' PC.

The InSight Controller uses a real-time 32 bit, multi-tasking operating system and is designed to be operated as either, stand alone, or integrated as part of a Distributed Control System. The Controller supports Allen-Bradley and Modicon Modbus protocols and has two serial ports as standard offering either RS232 or RS 422.



Instrument Specification

Accuracy	Calculation	IEEE754 double precision floating point arithmetic to 15 decimal points
Touch Screen	Viewing Area Resolution Keys	126mm x 70mm (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 Rack Mounted	2 max 2 - 10
Power	Voltage	90 - 264VAC (autoswitching) Frequency 47 - 63Hz Consumption 40W - typical Output 24V fused @ 250mA
Environment	Temperature Range Humidity	5 - 40°C 5% - 90% (non-condensing)
Dimensions	Instrument Panel Cut out	146mm x 286mm x 355mm (W x H x D over connectors) 282mm x 137mm
Standards	Manufacture Operating	The InSight Controller is manufactured in accordance with ISO 9002 CE Marked

I/O Card Specification (Each Card)

Analogue Inputs	Quantity Input Type Resolution Input Level Current Load Configuration Protection	6 Differential and floating when input < 10V 16 bit A-D 4 - 20 mA 50 Ohm Software user-defined Surge and ESD protected
Pulse Inputs	Quantity Input Type Input Voltage Logic Threshold	4 Single ended voltage - 2 with isolated loop powered current input 0 - 24 V Pk - Pk Software user-defined 2 - 12V Frequency Range 0 - 10 KHz Configuration Software user-defined Protection Surge, ESD and reverse polarity protected on voltage
pulse inputs		
Analogue Outputs	Quantity Output Resolution Load Configuration Protection	4 4 - 20mA 12 bit 500 Ohm max 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 24VDC @ 2mA max 24VDC @ 100mA max Opto isolated to 100VAC and fused
Serial Ports	Quantity Protocols Support Connection Protection	2 per I/O card RS232 (DTE) - RS485 - RS422 RX - TX - RTS - DTR 9 pin 'D' type 10KV discharge
Watchdog	Type Output Type Time Out	Continuity N/C - solid state volt free contact. Open on Alarm 1.6 seconds

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