



# 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

- 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, RS 422 or RS485.

Data Sheet SS062-0812-4 • InSight Blender Controller



## Instrument Specification

<b>Accuracy</b>	Calculation	IEEE 32 bit floating point
<b>Touch Screen</b>	Viewing Area Resolution Keys	126mm x 70mm (H x W) 240 x 128 pixel with fluorescent backlight Software defined with audio confirmation
<b>Status Indication</b>	Front Panel LEDs Alarms	Power - System Running - Security Status - Watchdog Timer - Alarm Status Software user-defined
<b>Number I/O Cards</b>	Standard Instrument	2 max
<b>Power</b>	Voltage Frequency Consumption Output	110 - 240VAC 50 - 60Hz 40W - typical 24V fused @ 250mA
<b>Environment</b>	Temperature Range Humidity	5 - 40°C 5% - 90% (non-condensing)
<b>Dimensions</b>	Instrument Panel Cut out	146mm x 286mm x 355mm (W x H x D over connectors) 282mm x 137mm
<b>Standards</b>	Manufacture	The InSight Controller is manufactured in accordance with ISO 9001

## I/O Card Specification (Each Card)

<b>Analogue Inputs</b>	Quantity Input Type Accuracy Input Level Current Load Configuration Protection	8 Differential 16 bit A-D 4 - 20 mA 50 Ohm Software user-defined Surge and ESD protected
<b>Pulse Inputs</b>	Quantity Input Input Voltage Logic Threshold Frequency Range Configuration Protection	4 Differential current or voltage pulse 0 - 24V DC or 4 - 20 mA Software user-defined 2 - 12V 0 - 10 KHz Software user-defined Surge, ESD and reverse polarity protected
<b>Analogue Outputs</b>	Quantity Output Accuracy Load Configuration Protection	4 4 - 20mA > 5µA 500 Ohm max Software user-defined Surge and ESD protection
<b>Digital Event I/O</b>	Quantity Type Configuration Input Level Output Level Protection	16 Bi-directional Software user-defined for either Input or Output 24VDC @ 0.5 mA 24VDC @ 100mA max Opto isolated and fused
<b>Serial Ports</b>	Quantity Protocols Connection Protection	2 per I/O card RS232 (DTE) - RS485 - RS422 9 pin 'D' type ESD protected
<i>* Modbus TCP over ethernet available with optional serial to ethernet converter</i>		
<b>Watchdog</b>	Type Output Type Time Out	Continuity N/C - solid state volt free contact. Open on Alarm 1.6 seconds

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*These are standard design specifications. We operate a policy of continuous development and the information on this sheet may be updated without notice.*



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