



## PRODUCT DATA SHEET: MODEL P531



### Product Description:

The IRIS Model P531 Signal Processor provides a lower cost alternative to the Model P532, as it is basically the same processor without the integrated front panel user interface.

Combined with the IRIS P532UI, all the functions of the P532 can be achieved. In addition, the Model P531 can be programmed via software, using your PDA (Personal Digital Assistant) and the optional interface cable.

As with the Model P532, the P531 uses a Dual Processor system to provide the ability to monitor up to three viewing heads simultaneously. With Automatic Viewing Head detection, the P531 is also capable of monitoring UV and IR separately. Each channel can be associated with Two sets of configuration data: Primary, or Alternate. The Model P531 is compatible with both RS422 and Modbus protocols. It has an automatic set up functionality whereby each channel can be configured automatically in one of three ways: Auto Fit, Auto Sequence, or Auto Filter.

### SPECIFICATIONS

<b>ELECTRICAL</b>	Input Power - AC Version	Main Power: 85 – 264 VAC, 47-63 Hz Battery: 24 VDC (voltage above 24 volt will be the power source)	
	Input Power - DC Version	Main Power: 24 VDC Battery: 24 VDC (power source is taken from the highest voltage)	
	Power	(DC unit tested at 100ms. sampling time)	13.2 Watts max. Average (including 3 view heads) 16.2 Watts max. Peak (including 3 heads in normal operation)
<b>ENVIRONMENTAL</b>	Ambient Temperature	-40° F - 140° F (-40° C to 60° C (FM) or 32° F - 125° F (0° C to 52° C) (CSA)	
	Humidity	Non-condensing Maximum 80% for temperatures below 88° F (31° C) Decreasing to 50% maximum at 104° F (40° C) and above	
	Vibration	+1 g at 10 to 150 Hz	
<b>OUTPUTS</b>	Flame Relay	3 channels of 2 Form C Contacts (DPDT)	Contact Rating: 5A at 32 VDC and at 250 VAC
	Self-Check Relay	3 channels of 1 Form C Contact (SPDT)	
	Alarm Relays	3 channels of 1 Form A Contact (SPST-N.O.)	Contact Rating: 2 A at maximum 250 VDC or 230 VAC
	Analog Flame Signal	0 – 20 mA or 4 – 20 mA , 1000 ohm maximum resistance	
	Power To Viewing heads	100 mA (maximum average), 24 VDC (rated), Current limited to 200 mA	
	24v output	24-volt output 50 mA , For Instrumentation use only , Provided for use with Isolated Select	
<b>INPUTS</b>	Isolated Select	7.5 – 30 VDC, Input Resistance 3900 ohm	
	Aux Mode	Connect to ground only , (WARNING: do not apply Power) , Sources 1 mA at 5 VDC	
	Viewing head Signal (for 55x and 70x view heads)	26-Volt P-P Maximum 1 MA	
<b>SERIAL COMMUNICATIONS</b> RS-422 / 4 wire (two twisted pair)	Baud	38400, 19200, 9600 or 4800	
	Parity	None, Even or Odd	
	Protocol	Modbus (RTU)	
<b>WEIGHT</b>	Shipping Weight	2 lbs. (0.9 Kg.)	
<b>DIMENSIONS</b>	Single Unit Carton	7 ¾ x 7 ¼ x 4 ¾ inches	
<b>APPROVALS</b>	The IRIS Model P531 Signal Processor has <b>FM</b> (Factory Mutual) approval and <b>CSA</b> (Canadian Standards Association) certification.		