



IRIS Systems Inc.  
 7583 Vantage Place, Delta, BC. V4G 1A5  
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## PRODUCT DATA SHEET: MODEL 800

### Product Description



The Model 800 Signal Processor, together with the Model S802 (IR) or S806 (UV) Viewing Head provides a truly compact, programmable, single channel flame monitoring system.

Settings can be changed from the factory defaults, by using the available software software, or by using the terminal communications program on your computer.

Programming is accomplished by using a hand held or laptop computer using an RS232 cable which connects to the mini jack program port located on the front of the unit.

Multiple Signal Processors can be connected to the same RS232 bus using a readily available Y-cable adapter.

### SPECIFICATIONS

<b>ELECTRICAL</b>	Primary Input Power	85-265VAC, 50-60 HZ, 0.10A MAX, fused (with either Viewing Head connected)
<b>ENVIRONMENTAL</b>	Ambient Temperature	0°C to 60°C (32°F to 140°F)
<b>OUTPUTS</b>	Flame Relay	2 form A contacts
	Flame Relay Contact Ratings	5A at 125 VAC, 250 VAC, and 30 VDC
	Self-Checking Relay	1 form A contact
	Self Checking Relay Contact Ratings	0.4A at 110 VDC; .5A at 125 VAC; 2A at 30VDC
	Analog Flame Signal	0 to 20 mA or 4 to 20 mA output for remote meters or DCS, non-isolated, 100 ohms maximum resistance
<b>WEIGHT</b>	Shipping Weight	1 lb (.5 Kg)
<b>DIMENSIONS</b>	Single Unit Carton	9 x 7 x 6½ inches
<b>APPROVALS</b>	The IRIS Model 800 Flame Monitor has <b>FM</b> (Factory Mutual) approval and <b>CSA</b> (Canadian Standards Association) certification.	



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## PRODUCT DATA SHEET: MODELS 700 and 800 Viewing Heads



Model 700



Model 700 PF



Model 800

**Product description:**

The IRIS Models S7xx and S8xx series of viewing heads are compact cylindrical units that are easily detachable from their Delrin mountings.

A 1/2 inch NPT female pipe thread is provided on the mounting for attaching a swivel mount or sight pipe. Provision for purge air is by means of a 1/4 inch female pipe thread on the side of the mounting. A continuous flow of purge air is required for cooling.

A transparent Hirshmann connector with two LED's and 15 ft. length of four conductor shielded cable is provided as standard is provided with all viewing heads, except for the -PF model. The LED's assist in set-up and self checking of the viewing head.

Accommodation is provided for an orifice and snap ring in the mounting block.

### SPECIFICATIONS

<b>ELECTRICAL</b>	Input Power	22VDC to 26VDC, 150 mA MAX from Signal Processor
<b>ENVIRONMENTAL</b>	Viewing Head Sealing	NEMA TYPE 4/4X with tightened connector and UV cable protection
	Ambient Temperature	-40°F to 185°F (-40°C to 85°C)
<b>IR DETECTOR SPEC (S702, S702-PF, S702-HF, S702-HF-PF, S802, S802-PF)</b>	Detector type	InGaAs photodiode with spectral response 950 to 1710nm (1/2 intensity points)
	High Pass Filter Pickup	33 Hz standard, 155 Hz High Freq. option (-HF)
	OPTICAL: Angle of view	1 degree (1.45" dia. at 6 ft.)
<b>UV DETECTOR SPEC (S706 &amp; S706-PF, S806)</b>	Detector Type	UVtron with spectral response 185 to 260nm
	OPTICAL: Angle of view	5 degrees (1 inch per foot)
<b>CABLE &amp; CONNECTOR</b>	Signal Processor to Viewing Head	IRIS C-330, 4 Conductor, 18 ga., shielded, 90C, Sunlight Resistant, 15 ft. long, with ITC rating for US and CIC rating for Canada.
	-PF model or when extending standard cable	4 conductor, 22 ga. or larger with overall braided shield, 95% coverage, or with shield over the signal line.
<b>WEIGHT</b>	Shipping Weight	2 lbs. (0.9 Kg.)
<b>DIMENSIONS</b>	Single Unit Carton	9 x 7 x 6 1/2 inches

<b>APPROVALS and CERTIFICATIONS</b>	Models S702, S702-HF, S702-PF, S702-HF-PF, S706, S706-PF, S802, S802-HF, and S806 viewing heads have Factory Mutual (FM) Approval for Combustion Safety and Canadian Standards Association (CSA) Certification with added National Recognized Testing Laboratories (NRTL/C) Certification. As well, the above viewing heads are approved and certified by Factory Mutual and CSA for use in hazardous locations, Class I, Division 2, Groups A, B, C and D, temperature code T4A. The viewing heads are approved as sealed and corrosion resistant to NEMA 4 and NEMA 4X by Factory Mutual.
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