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## PRODUCT DATA SHEET: MODEL S550B



### Product Description:

The S550B (shown above and right)) works with the latest version of the P520/P522/P531 and P532 signal processors. Like other viewing heads in the S55x family of viewing heads, the S550B produces output pulse rates proportional to the flame signal strength; the pulse rates are displayed at the front panel of the signal processors. Unlike the other members of the S55x family of viewing heads, certain parameters in the S550B viewing head can be selected or adjusted remotely from the front panel of the P520/P522/P532 signal processors. These parameters are:

UV gain 0-99  
IR gain 0-699  
Filter Selection 1-8

Once adjusted, the new parameters are stored in EEPROM in the signal processor. If power is removed from the signal processor (which powers the viewing head) and reapplied, the signal processor then automatically re-sends the stored parameters out to the S550B viewing head. In addition, at the front panel of the signal processor the operator may also select "CAL", a semiautomatic mode which will help to speed up the S550B setup. Thus, the S550B is a dual-sensor viewing head where the gain and filter selections are adjusted and stored remotely by the P520, P522, P531 and P532 signal processors.

IRIS Model	Type	Gas (Hydrogen, Propane, NG)	Gas Low NOx Burners	Oil (Heavy Oil - Air & Steam atom)	Low NOx Pulverized Coal
S550B	UV/Ge	Discrimination Excellent	Discrimination Good	Discrimination Excellent	Discrimination Excellent Signal Very Good
S552B	Ge	Discrimination Good Signal Good	Discrimination None Signal Fair	Discrimination Very Good Signal Good	Discrimination Good Signal Good
S556B	UV	Discrimination Excellent Signal Good	Discrimination Good Signal Good	Discrimination Excellent Signal Poor	Discrimination Excellent Signal Very Poor

### SPECIFICATIONS:

<b>ELECTRICAL</b>	Input Power	24VDC +/- 10%, 300mA with One S550B Viewing Head
<b>ENVIRONMENTAL</b>	Sealing	Viewing Head NEMA TYPE 4
	Ambient Temperature	-40° F to 122° F (-40°C to +50°C)
	Housing Temperature	-40° F to 140° F (-40°C to +60°C)
	With S580 Fiber Optics	-65° F to 572° F (-54°C to +300°C)
<b>OPTICAL</b>	Angle of view	IR 1.0°
		UV 3.0°
<b>CABLE</b>	Between Viewing Head and Signal Processor	4 conductor, #16AWG or #18AWG. One wire shielded with braided shield for flame signal such as IRIS Part Number C328 or C330
<b>WEIGHT</b>	Shipping Weight	3 lbs (1.4 Kg)
<b>DIMENSIONS</b>	Single Unit Carton	9 x 6 ½ x 7 inches
<b>APPROVALS</b>	The IRIS Model S550B Viewing Head has <b>FM</b> (Factory Mutual) approval, and <b>CSA</b> (Canadian Standards Association) Certification to US Standards (ANSI/UL) for Class I, Div 2, Groups A, B, C and D for Hazardous Location Applications, T5 Operating Temperature Ambient -40C to +70C, Enclosure type 4X.	