



PRODUCT DATA SHEET: MODEL S552B



Product Description:

The S552B is for IR sensing only. It is basically an S550B without UV capability. The P520, P522, P531 or P532 signal processor will be aware of which viewing head of the S55xB family is connected to it so that only those adjustments which are appropriate to the S552B will be made available to the operator. These adjustments apply to the S552B:

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

When it comes to features like "CAL", the operator is given only those choices which are appropriate. For example, the operator does not have to choose between calibrating with the UV sensor or the IR sensor; in "CAL" but is only offered the choice of calibrating with the IR sensor.

| 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:

| | | |
|----------------------|--|--|
| ELECTRICAL | Input Power | 24VDC +/- 10%, 300mA with One S552B Viewing Head |
| ENVIRONMENTAL | 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) |
| OPTICAL | Angle of view | IR 1.0° |
| | | UV 3.0° |
| CABLE | 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 |
| WEIGHT | Shipping Weight | 3 lbs (1.4 Kg) |
| DIMENSIONS | Single Unit Carton | 9 x 6 ½ x 7 inches |
| APPROVALS | The IRIS Model S552B Viewing Head has FM (Factory Mutual) approval, and CSA (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. | |