

Honeywell IRIS Flame Monitoring Systems from DtiCorp.com

DtiCorp.com is introducing the Honeywell IRIS Flame Monitoring Systems

April 29, 2009 (FPRC) -- Fort Lauderdale, FL - The Honeywell IRIS CS550/552/556 viewing head/flame detector detects the presence or absence of flame, features a digital display, quick disconnect plug, gain setting, selectable flame on and flame off settings for added flame discrimination and NEMA 4X / IP67 enclosure rating. Viewing head has CSA rating for Class 1, Div 2, Groups A-B-C-D, T5 hazardous environment rating. Perfect for difficult sighting and multiple burner applications.

Honeywell IRIS S550B GENERAL DESCRIPTION

The IRIS Model S550B is a state-of-the-art flame monitoring viewing head utilizing two types of detectors: an IR (infrared) solid state sensor and a UV (ultraviolet) photo sensor.

The S550B works with the latest version of the P520, P522, P531 and P532 signal processors. Like other viewing heads in the S5xx 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 S5xx 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 and P532 signal processors. These parameters are:

- a) UV gain 0-99
- b) IR gain 0-699
- c) 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 resends 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.

The IRIS Model S550B 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.

Honeywell IRIS S552B GENERAL DESCRIPTION

The S552B is for IR sensing only. It is basically an S550B without UV capability. The P520, P522,

P531 or P532 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:

- a) Filter Selection 1-8
- b) 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.

Honeywell IRIS S556B GENERAL DESCRIPTION

The S556B is for UV sensing only. It is basically an S550B without IR capability. The P52x or P53x will be aware of which viewing head of the S55xB family is connected to it so that only the adjustment which is appropriate to the S556B will be made available to the operator:

- a) UV gain 0-99

When it comes to features like "CAL", the operator is only given 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 UV sensor or not.

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.

COMPARISON WITH OTHER MODEL S5xx SERIES VIEWING HEADS

The S55Xb uses a Germanium sensor for IR detection, like the S511 and uses a UV TRON® Photo Sensor for UV detection, like the S506, but both sensors are in the same housing in the S55xB. The pulses from the UV and IR sensors are summed internally into a single pulse stream out to the signal processor. A dual-LED digital display is used to indicate the first two digits of the signal processor, which indicates the pulse rate out of the S550B. It is visible at the rear of the viewing head housing. The UV sensor emits green digits and the IR sensor emits red digits. With a count rate of 1200 displayed at the signal processor the LED will display 12. This is very useful for aiming and sighting the viewing head. One can readily distinguish the differences by reading the LED and use this indicator to adjust the sighting to obtain a maximum pulse rate at the LED, and therefore a maximum reading at the signal processor.

Another difference from previous models is that the gain for each sensor and the selection of the filter for IR may be set remotely through the front panel of the P52x/P53x signal processors.

Another difference from the earlier S5xx family of viewing heads and the S55xB family is that the earlier viewing head family had only 4 high pass filters to choose from; the S55xB has 8.

About Us: DtiCorp.Com (<http://DtiCorp.com/>) sells Flame Monitoring Systems, Honeywell Thermostats, HVAC Controls and accessories. They are keeping in stock various models of Honeywell burner sequence controllers, UV / IR flame detectors, flame signal amplifiers, modutrol motors, pressure switches, pressure & limit controllers, ignition transformers, gas solenoid valves, gas safety shut-off valves and Honeywell actuators.

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