

# Honeywell

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### MODEL P531 SIGNAL PROCESSOR AND P532UI USER INTERFACE



- Monitor 3 viewing heads simultaneously
- Ability to monitor UV and IR separately
- Automatic viewing head detection
- Two sets of configuration data: Primary or Alternate
- Automatic set up functionality
- Viewing head error detection with lockout capabilities
- Selectable P522 emulation mode available
- Compatible with RS422 and Modbus protocols
- Field upgradeable with firmware capabilities
- Program with P532UI interface or optional PDA

## WORLD LEADER IN FLAME MONITORING



# MODEL P531 and P532UI SPECIFICATIONS

## *Electrical*

### **Main Power**

#### **AC version**

Main Power

85 – 264 VAC, 47-63 Hz

Battery

24 VDC (voltage above 24 volt will be the power source)

#### **DC version**

Main Power

24 VDC

Battery

24 VDC (power source is taken from the higher voltage)

Power (DC unit tested at 100 ms sampling time)

13.2 Watts max. Average (including 3 viewing heads)

16.2 Watts max. Peak (including 3 Viewing heads in normal operation)

## *Environmental*

### **Ambient Temperature**

-40° F (-40° C) to 140° F (60° C) **FM** or 32° F (0° C) to 125° F (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

## *Outputs*

### **Flame Relay**

3 channels of 2 Form C Contacts (DPDT)

### **Self-Check Relay**

1 channel of 1 Form C Contact (SPDT)

### **Contact Rating**

5A at 32 VDC and at 250 VAC

### **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

1000Ω maximum resistance

### **Power To View 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 inputs

## *Inputs*

### **Isolated Select**

7.5 – 30 VDC

Input Resistance 3900Ω

### **Aux Mode**

Connect to ground only

**(WARNING: do not apply Power)**

Sources 1 mA at 5 VDC

**Viewing Head Signal** (for 55x and 70x viewing heads)

26-Volt P-P Maximum

1 MA

## *Serial Communications*

RS-422 / 4 wire (two twisted pair)

**Baud** 38400, 19200, 9600 or 4800

**Parity** None, Even or Odd

**Protocol** Modbus (RTU)

## *Flame*

**Maximum flame detector response time**

5 second

**Minimum flame detector self-checking rate**

1 second

**Maximum flame failure “lock-out” time**

2 to 4 seconds (adjustable)

**Maximum flame failure response time**

2 to 4 seconds (adjustable)

**Signal for presence of flame**

Flame on set point (adjustable)

**Signal for absence of flame**

Flame off set point (adjustable)

## *Compatibility*

### **Viewing Head #3**

S702, S706, S802, S806 (including PH and HF versions)

### **Viewing Head #1 or #2**

S550x, S552x, S556x (including PF versions)

## *Fuses*

No user serviceable components inside.

Self-resetting fuses are provided internally on the following connections:

+24 PWR DC input voltage supply (DC units only)

+24 BATT Battery input voltage supply

These require cooling off period (with no load) to reset.

## *Maintenance*

No maintenance is required.

## *Cable*

Connection from the Signal processor to the viewing heads shall use approved cable:

Cable can be Instrument Tray cable with CIC C22.2 No. 239 certification such as IRIS C-330, or must be run inside of Conduit (with properly sealed ends).

For more information, please contact:

**Honeywell**