

FLAME DETECTION SYSTEM

IRIS P531 - P532



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KEY FEATURES

- Flame signal amplifier
- Dimensions:
 - P531/P532= 182x108x150mm

ELECTRICAL FEATURES

- Model P531 AC version, P532 AC version:
 - Primary Input Power: 85 - 264 VAC, 47-63Hz
 - Battery Backup Voltage: 24VDC (voltage above 24volt will be the power source)
- Model P531 DC version, P532 DC version:
 - Primary Input Power: 24VDC
 - Battery Backup Voltage: 24VDC (power source is taken from the highest voltage)
 - Power: (DC unit tested at 100ms sampling time);
 - 13.2 Watts max. Average (including 2 viewing heads)
 - 16.2 Watts max. Peak (including 3 heads in normal operation)

ENVIRONMENTAL

- Ambient temperature: -40° C to 60° C
- Humidity:
 - non-condensing.
 - Maximum 80% for temperatures below 31° C
 - Decreasing to 50% maximum at 40° C and above.
- Vibration: +1g at 10 to 150H

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 32VDC and at 250 VAC
- Alarm Relays: 3 channels of 1 Form A Contact (SPST-N.O.)
- Contact Rating: 2A at maximum 250VDC or 230VAC
- 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 50mA
 - For Instrumentation use only
 - Provided for use with Isolated Select inputs

INPUTS

- Isolated Select:
 - 7.5-30VDC
 - Input Resistance 3900Ω
- Aux Mode:
 - Connect to ground only (WARNING: do not apply Power)
 - Sources 1mA at 5VDC
- Viewing Head signal (for 55x and 70x viewing heads):
 - 26-Volt P-P Maximum, 1MA



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SERIAL COMMUNICATION

- RS-422/4 wire (two twisted pair)
 - Baud: 38400, 19200, 9600 or 4800
 - Parity: None, Even or Odd
 - Protocol: Modbus (RTU)
- RS-232 (P531 front panel port only)
 - Baud: 19200
 - Parity: None
 - Protocol: Modbus(RTU) fixed address of 64

FLAMES

- 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)
- No large Maximum flame signal will cause lost flame indication.

COMPATIBILITY

- Viewing Head #3: S702, S706, S802, S806
- Viewing Head #1 or #2: S5XX, S550x-BE and S550BE-Ex

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

OPTIONS

- Cables
- Swivel joint
- Flame scanner
- Ex d version

APPLY TO

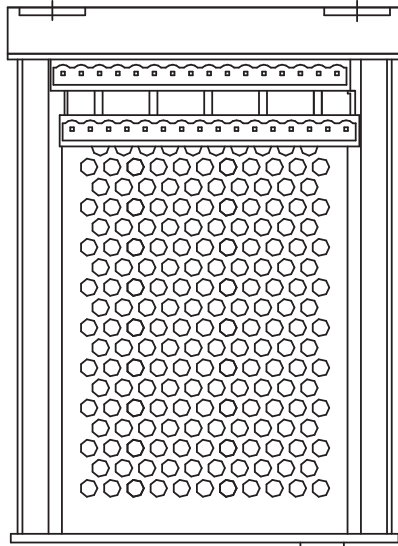
- Heaters
- Boilers
- Burners

MANUFACTURER

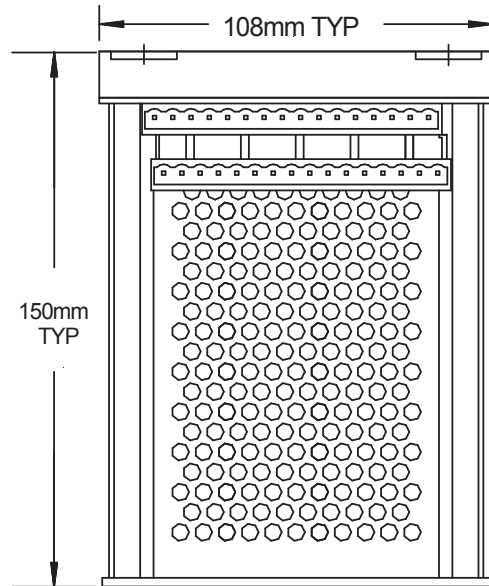
Combustion and Energy Srl
Part number: P531 AC (85 - 264 VAC)
P531 DC (24 VDC)
P532 AC (85 - 264 VAC)
P532 DC (24 VDC)

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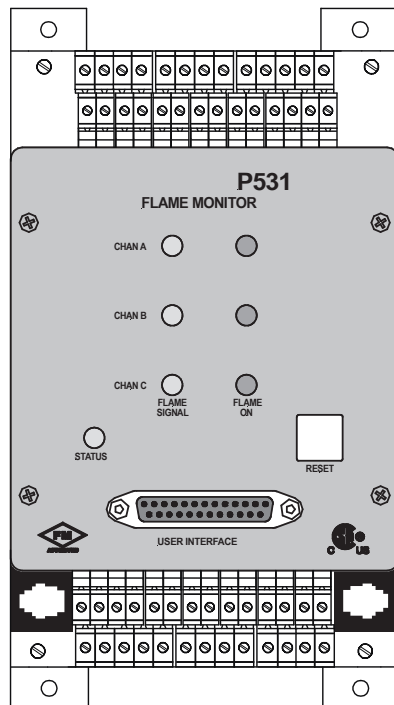
IRIS P531 - P532



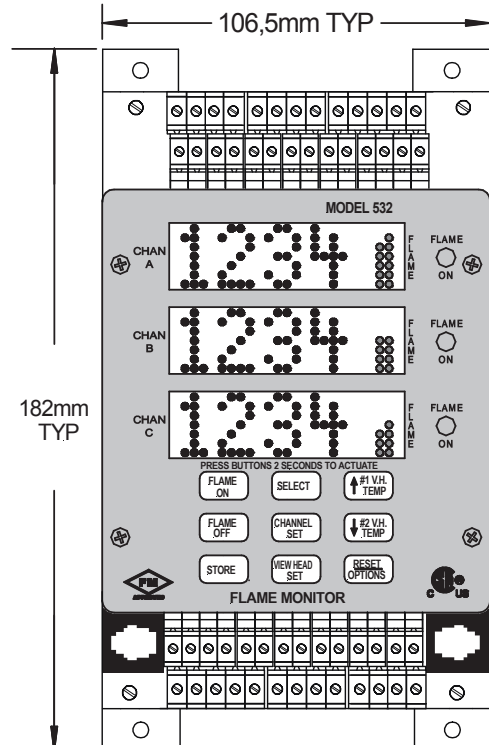
P531
TOP VIEW



P532
TOP VIEW



P531 FRONT VIEW



P532 FRONT VIEW

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