

Signal Processors Model P522

Dual channel UV and IR Signal Processor with integrated keypad and display that supports two switched viewing heads simultaneously.

Overview



Model P522 signal processors are fail-safe, self-checking signal processors that are used with two switched S55XBE series viewing heads. They offer independent gain adjustments for each sensor and multiple flicker set points for IR which makes them ideal for applications where a high level of discrimination is required.

Features & Benefits:

- Models available in AC (P522AC) or DC (P522DC) input voltage
- 4-digit digital flame signal display, 4 LED status indicators and analog bar graph provide continuous system status
- Panel mounted design and plug-in terminal connectors allow for easy installation
- Adjustable Flame on/off threshold
- Programming, configuration and monitoring available at the device or remotely using FlameTools
- Supports two switched viewing heads
- Two configurable files for remote selection
- Scalable mA output
- Modbus RS422 communication for use with FlameTools supports 64 loops

Specifications

OVERVIEW

Models

- P522AC, P522DC

IGNITION, FLAME & SUPERVISION SPECIFICATIONS

Flame Failure Response Time (FFRT)

- 1, 2, or 3 seconds

Analog Flame Signal Output

- User-selectable 0 to 20 mA or 4 to 20 mA (360 Ohm max)

IR Filter Settings

- 8 options: 16, 24, 33, 52, 75, 100, 155, 215 Hz

Flame Signal Input

- 7.5-30 VDC, 3900 Ohm input resistance



Flame Relay Output

- 2 Form C Contacts (DPDT)

UV Gain Range

- 0 to 99

IR Gain Range

- 0 to 699 (default: 450)

SAFETY, PROTECTION & RELIABILITY

Safe Failure Fraction (SFF)

- >99%

APPLICATIONS & COMPATIBILITY

Viewing Head Compatibility

- S55XBE series

ENVIRONMENTAL CONDITIONS

Ambient Temperature Range

- 0 to +50 deg C (32 to +122 deg F)

CONTROL, LOGIC & SYSTEM BEHAVIOR

Self-Check Relay Output

- 1 Form C Contact (SPDT)

COMMUNICATION & INTERFACES

Communication Registers

- 23 Holding Registers (4X) and 5 Discrete Registers (OX) including flame count, gain, UV/IR settings, temperature, relay status, selections, firmware revision. (Modbus)

Serial Communication

- RS-422, 4800 or 9600 baud, 4-wire/2 twisted pair

ELECTRICAL SPECIFICATIONS

Battery Backup Voltage

- +100 mA per additional viewing head
- 22 to 26 VDC, 300 mA

Proof Test Interval

- 1 to 5 years

Viewing Head Power

- +26 VDC max, fused 0.25 A; +14.3 VDC pulsing (0.2 s ON, 0.8 s OFF)

INPUTS, OUTPUTS & SIGNAL INTERFACES

Channel Select Input

- 7.5-30 VDC, 3900 Ohm input resistance

Relay Rating

- Max 60 W, 125 VAC; Max 220 VDC/250 VAC; Max 2 A

ACTUATION, VALVE & MOTION CONTROL SPECIFICATIONS

System Architecture

- 1oo1 (one out of one)



Remote Meter Output

- 0 to 20 mA or 4 to 20 mA (switchable)

DIMENSIONS & WEIGHT

Mounting Dimensions

- 7.2 in H x 4.25 in W x 6.4 in D (approximately)

STANDARDS & CERTIFICATIONS

Approvals

- WEEE Directive 2012/19/EU - Electronic waste compliance, CSA Certified (Yes), SIL 3 (Safety Integrity Level), FM Approved

Filters

▼ CATEGORY

☒ Base Part

▼ TYPE

☒ Signal Processor

 Search

Part Number	P522AC
Description	AC SERIES 500 PROCESSOR UNIT (2CHNL)
Category	Base Part
Type	Signal Processor
	Order Online

Part Number	P522DC
Description	DC SERIES 500 PROCESSOR UNIT (2CHNL)
Category	Base Part
Type	Signal Processor
	Order Online

Rows 10 ▼

[Previous](#) [1](#)

Product Number



Please sign in to view part numbers available for purchase based on your account

[Sign In](#)

P522AC
AC SERIES 500 PROCESSOR UNIT (2CHNL)

P522AC
AC SERIES 500 PROCESSOR UNIT (2CHNL)

P522DC
DC SERIES 500 PROCESSOR UNIT (2CHNL)

P522DC
DC SERIES 500 PROCESSOR UNIT (2CHNL)



