

CHANGES FOR P522DC SIGNAL PROCESSOR

The P522DC is an upgrade of the P522 Signal Processor. It features a higher current rating for the relay contacts and is compatible with all S5XX viewing heads. The front panel and the internal connections are shown on the right. All the user features of the earlier P522 are maintained plus the self-resetting fuses, front panel lettering and the source impedance resistor requirement of Addendum 1.

P522DC SPECIFICATIONS

ELECTRICAL

- Main Power - 22-26 VDC, 130mA
plus 100mA/View Head
- Battery Power - 22-26 VDC, 130mA
(Battery V < Main V) plus 100mA/View Head

ENVIRONMENTAL

- Ambient Temp. - 0°C to 52°C CSA Rating
0°C to 60°C FM Rating

OUTPUTS

- Flame Relay - 2 Form C Contacts
- Self-Checking Relay - 1 Form C Contact
- Contact Ratings - 5A @ 30VDC, 125VAC
and 277VAC
- Analog Signal - 0-19.8mA or 4-19.8mA
360 ohms max. resistance
fused with self-resetting
fuses at 0.25A
- Power to View Heads -

INPUTS

- Isolated Chan. Select - 7.5 – 30 VDC
Input R = 3900 ohms
- Coil for V.H. Select - 17- 48 VDC (24 VDC nom)

SERIAL COMM.

- RS-422 baud rate - 4800 to 38400 user selected
- Cable - Two twisted pairs

VIEWING HEAD CABLE: When using S5XX view heads in ordinary locations, use IRIS C-328 cable or another cable running in a metal conduit to the control room or signal processor enclosure, or use IRIS C-330 cable or a shielded cable with UL ITC and CSA CIC (C22.2 No. 239) ratings without conduit. When using S55X viewing heads in hazardous locations, the above cabling specifications also apply, except that if conduit is used, it must be sealed at both ends.

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