

Stratos[®] Remote Display Units



Features

- Mimics the displays of Stratos-HSSD and Stratos-Micra Detectors.
- 26 bargraph segments with 4 separate alarm indicators.
- Available in single wall mounted enclosure or in a 19" rack enclosure accommodating up to 8 RDUs.
- Compatible with SenseNET™ bus (RS485 data highway).
- Remote relay board option available with 4 alarms and common fault.

Description

RDU will mimic the display of a Stratos detector connected to it via the RS485 SenseNET bus. A bank of switches selects the detector display to be repeated.

The unit consists of a 3 U high metal front panel plate with a graphics overlay and a main PCB which contain terminals to power supply and RS485 highway.

An optional PCB provides volt-free relay contacts to provide alarm switching on alarm conditions of the detector(s).

Specifications

Remote Display Unit

Nominal Operating Voltage	24 volts \pm 10%
Maximum Input Voltage Range	18 to 30 volts
Maximum Operating Current	40 mA
Operating Temperature Range	14° to +140°F (-10° to +60°C)
Storage Temperature Range	-13° to +185°F (-25° to +85°C)
Operating Humidity Range	0 to 90% non-condensing

Optional Relay Card

Maximum Voltage	30 volts DC
Maximum Power	10 w
Maximum Current	0.4 A
Maximum Life Expectancy	1 x 10 ⁸ activations
Maximum Contact Resistance	100 milliohms

Cabling

The SenseNET data cable should be 120 Ω screened twisted pair such as Belden 9841 24 AWG.

The RDU has no built-in repeater, so the maximum total length of cable that can be used is 3,937ft.(1200m). An optional repeater unit is available if a longer cable run is needed.

Connections

0V	Power supply 0 volts. This must NOT be connected to data SCN
+24V	Power supply 24 volts input
SCN	Data cable screen
A	Data loop A circuit
B	Data loop B circuit

Power Supplies

The power requirement for the RDU is 40mA max at 24 volts \pm 10%. Failure of power supply to the RDU will cause the fault relay contact to open (if the optional relay card is fitted).

Single Unit Enclosure Dimensions

3.14" (80mm)w x 5.9" (150mm)h x 2.4" (60mm)d

Ordering Information

Part No.	Description
30802	Remote Display Unit for 19" rack mounting
30803	Remote Display relay board
30814	19" sub frame suitable for mounting 8 RDUs
30812	Infill plates in brushed aluminum for spare slots
30813	Infill plate as above with RS232 port for PC interface
30817	Single RDU wall mounting enclosure