

# Stratos®

ASPIRATING SMOKE DETECTOR

Remote Display Units



## Key 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 (RS 485 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 contains terminals for power supply and RS485 highway.
- An optional PCB provides volt-free relay contacts to provide alarm switching on alarm conditions of the detector(s).

## SPECIFICATION

### Remote Display Unit

Nominal operating voltage	24 volts ± 10%
Maximum input voltage range	18 to 30 volts
Maximum operating current	40 mA
Operating temperature range	-10 to +60 °C
Storage temperature range	-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 <sup>8</sup> activations
Maximum contact resistance	100 milliohms

### Cabling

The SenseNET data cable should be 120Ω 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 1.2 kilometres. An optional repeater unit is available if a longer cable runs are 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 ± 10%. Failure of power supply to the RDU will cause the fault relay contact to open (if the optional relay card is fitted).

## 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 RDU's

**30812** Infill plates in brushed aluminium for spare slots

**30813** Infill plate as above with RS232 port for PC interface

**30817** Single RDU wall mounting enclosure



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