features

- Compatible with ZXa and ZXe intelligent multi protocol fire alarm control panels
- Provides one class-A or class-B loop
- Supports Sensortec analogue series detectors and modules
- Plug-in connection
- Double address detection

The Nittan loop driver is a plug-in card for use in the ZXa and ZXe intelligent multi protocol fire alarm control panels. This module allows ZXa/ZXe control panels to support input/output points from Nittan's Sensortec analogue series (AS) addressable devices such as:

- Ion and photo smoke sensors (Ionisation and optical)
- Heat sensors
- Input modules
- Output modules
- Sounder control modules
- Zone monitor/control modules
- Manual call points
- Loop powered addressable sounders

The plug-in loop driver card provides power for and handles communications to the addressable devices. The loop controller continuously monitors the analogue values of all sensors and displays this value on the control panel as a percentage of the alarm threshold value. Both the alarm and pre-alarm threshold levels can be adjusted from the control panel if required.

Up to 126 devices can be connected to a single loop controller. Each Sensortec analogue series device has an 8 bit DIP switch to allow a unique address, in the range 001 to 126 to be selected.

The loop controller can support class-A and class-B wiring configurations. Short-circuit isolation and double address detection are built into the plug in card.

The AUTO-LEARN facility provided in the ZXa and ZXe control panels saves considerable time and effort when installing a new loop or when changing sensor configuration. It allows the system to learn for itself what devices have been installed on the loop.

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LPCB
Quality Systems Certificate No 154
Assessed to ISO 9001

Nittan
Loop Driver Card
Data Sheet



151(0102)

We reserve the right to change or amend any design or specification in line with our policy of continuing development and improvement.

mechanical

Dimensions (HxWxD):	90 x 54 x 20 mm
Weight:	35 gr. (1 oz)
Operating temperature:	0°C to 49°C
Humidity:	10% to 93% non-condensing

electrical

Loop voltage:	24V
Power consumption:	30mA (excluding loop devices)
Maximum continous loop drive current:	136mA

(max. 500 mA available for two loops in ZXa,
max. 1250mA available for five loops in ZXe)

Maximum circuit ratings:

Resistance:	36 Ohm max.
Capacitance:	0.6µF max.

Diagnostics:

Two LED's to indicate which end of the loop is being driven.

Loop terminations:

Screw terminals on the motherboard for a maximum cable cross sectional area of 2.5 mm^2 (13 AWG) removable block.

Wiring:

Class A or class B with non- shielded, twisted wire.

part numbers

EN54

795-044-001 Nittan AS series loop driver card

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