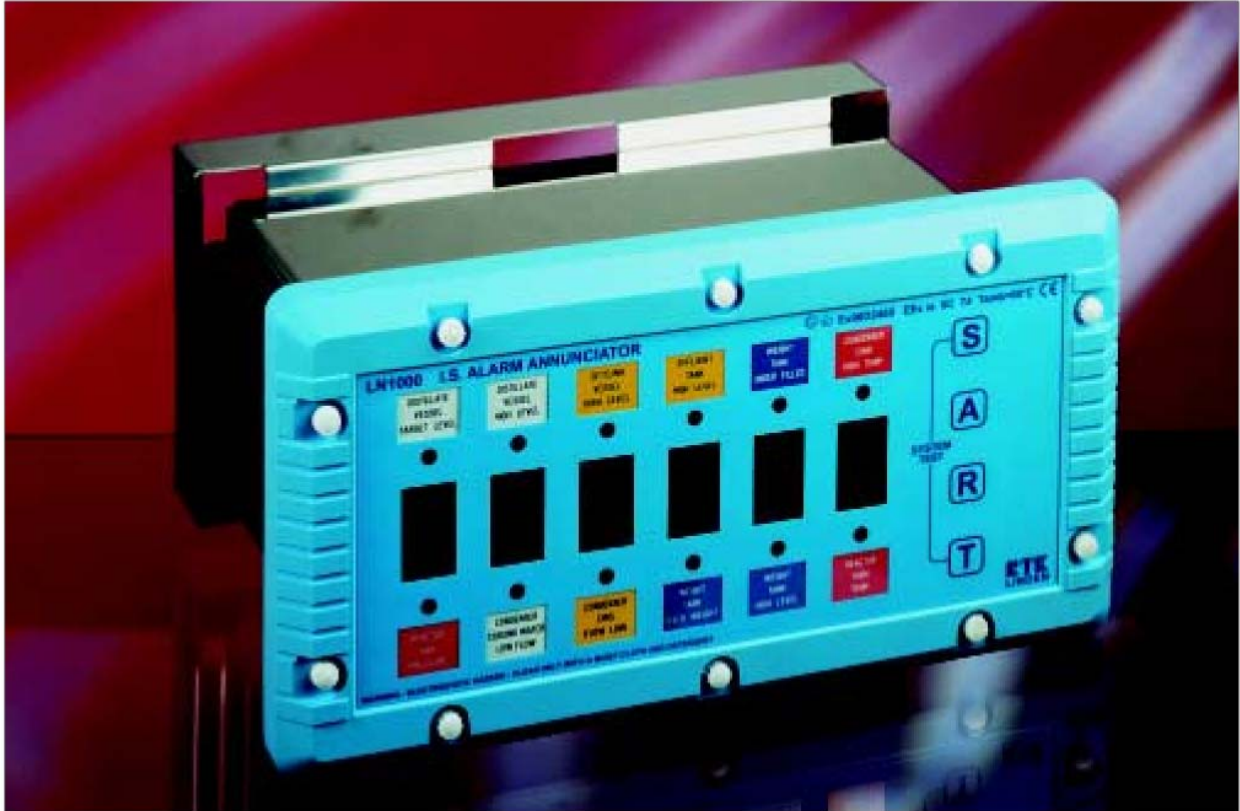


## LN1000 INTRINSICALLY SAFE ANNUNCIATOR

### Modular Alarm System for Hazardous Areas



The LN1000 IS Annunciator provides a unique solution for problems with hazardous area alarm indication. The annunciator provides a visual display of the alarm status including 'first-up' information and can be mounted in the hazardous area for the benefit of operators working in any Zone.

The lightweight stainless steel construction gives a compact and simple to install modular unit which can easily be expanded by the addition of extra alarm cards.

Maintenance can be carried out live without the necessity of 'gas checks' or prior shutdown. Unlike flameproof, purged and type 'N' systems, installation is simple and relatively low cost.

Power to the annunciator is supplied from the safe area through a single IS interface for up to 32 channels.

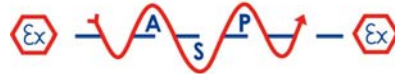
With the addition of a number of ancillary devices a complete intrinsically safe alarm and control package can be provided.

- BASEEFA certified to EEx ia IIC T4 to CENELEC standards
- Ideal for installation in any Zone.
- Up to 32 channels can be powered through one IS interface
- Field-mounting product: flameproof or purged cabinets not required
- User-programmable alarm sequences to ISA-S18.1 1979
- Compatible with a range of intrinsically safe audible and visual alarms
- Alarm indication by combined bright LEDs and LCDs



Certificate No. FM14290





## Specification

### Safety Description

#### Certification

Certified by BASEEFA to EEx ia IIC T4, CENELEC standard

#### Unit Location

Zone 0, IIC, T4 hazardous area to EN50014

#### Location of Alarm Contacts

Zone 0, IIC hazardous area to EN50014

### Inputs

#### Alarm Inputs

User selectable as normally open or normally closed.

LN1000/12: maximum 12 inputs which must be isolated

LN1000/32: maximum 32 inputs which must be isolated

#### Inhibit Inputs

Each alarm channel can be individually inhibited to prevent alarms being activated.

#### Pushbutton Inputs

As standard four membrane pushbuttons are fitted to the front fascia, however terminals are provided so remote pushbuttons can be wired into the LN1000. Pushbuttons are: Test, Acknowledge, Reset, Silence

### Outputs

#### Sequence Card Outputs

**Horn:** To drive the DA-125 horn powered from the unit

**Ext Sound:** Used to switch a DA-149 IS Relay to control external sounders

**Groups:** Two group outputs to drive DA-149 IS Relays. One is configurable to follow the alarm logic or alarm contacts and the second works as a reflash output which gives a 1 second pulse on the occurrence of each new alarm.

#### Alarm Card Outputs

Each 2 channel alarm card has two group outputs per alarm channel. These can be configured to follow the alarm logic, follow the input or follow the horn. These outputs are ideal to drive the DA-149 IS Relays which in turn can be used to control external safe or hazardous area mounting equipment.

### General

#### Supply

Via suitably certified isolated interface sited in the safe area; the MTL5021 is recommended.

#### Power requirements

20-35VDC at 110mA max into the MTL5021 interface

#### EMC Compliance

Immunity to EN50082-2:1995  
Emissions to EN50081-2:1994

#### Environment

Operating temperature: -20 to 60°C

Storage temperature: -20 to 80°C

Humidity: 5-95% RH, non condensing

#### Protection (Panel Mount)

Door to case and case to panel: IP65

Rear of enclosure: IP20

#### Protection (Wall Mount)

IP65

#### Terminals

Rising clamp type terminals, for conductors up to 2.5mm<sup>2</sup>

#### Recommended cable

0.5 to 2.5mm<sup>2</sup> two core with earthed screen and insulated sheath

#### Construction

Case: Stainless steel

Front fascia: High impact resistant polyurethane

Membrane: Polyester

#### Weight

12 way panel mount: 3.8kg

32 way panel mount: 8.0kg

12 way wall mount: 20.0kg

32 way wall mount: 44.0kg

Above is for the chassis c/w Sequence

Card – add 120g for each Alarm Card

required.

*Due to our policy of continuous product development, we reserve the right to amend specifications without notice.*

## LN1000 IS Annunciator Ordering Information

LN1000 / ★ / ★ / ★ / ★

↑ ↑ ↑ ↑

**Options**..... A=audible output to drive DA-125 horn • FEC=facilities expansion card

**Mounting**..... P=panel • W1=wall mount (supply and inputs wired to terminals)

• W2=wall mount (all inputs and outputs wired to terminals)

**Alarm channels**..... Number of alarm channels

**Chassis size**..... 12 or 32 way

### Supplied by:

#### A.S.P. Electro-Technology Ltd

Specialist Suppliers of Hazardous Area Certified  
Electrical Products & Instrumentation

39 London Road, Hinckley, LE10 1HQ. U.K.

Tel: +44 (0)1455 635796 Fax: +44 (0)1455 251110

Email: [sales@asp-electro-tech.com](mailto:sales@asp-electro-tech.com) Web: [www.asp-electro-tech.com](http://www.asp-electro-tech.com)



This publication is not intended to form the basis of a contract. All the above specifications, dimensions, weights, tolerances etc are typical and may be varied or changed by the manufacturer without prior notice. A.S.P. Electro-Technology accept no liability for consequence of use.