

NLINS 300 SERIES

## INSULATION / CONTINUITY TESTER.

**PREVENTIVE MAINTENANCE**

This instrument requires very little maintenance.

Test leads should be checked before use to ensure there is no damage.

Ensure batteries are removed if left unused for extended periods.

When necessary, the instrument can be cleaned with a damp cloth.

Do not use alcohol based cleaners as these may leave a residue.

**SPECIFICATIONS****General Specification****Insulation ranges**

**Nominal Test Voltage:** 1000 V, 500 V, 250 V (d.c.)

**Measuring Range**

**All instruments:** 10 k $\Omega$  - 999 M $\Omega$  on all ranges

**Short Circuit Current:**

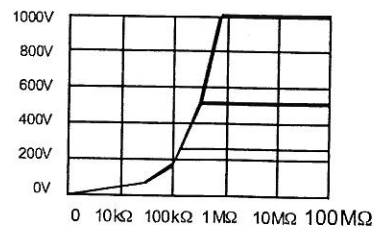
1.5 mA nominal

**Test Current on Load:**

1 mA at min. pass values of insulation (as specified in BS 7671, HD 384 and IEC 364)

**Accuracy (at 20° C)**

$\pm 3\%$ ,  $\pm 2$  digits

**Terminal characteristics****Continuity ranges****Measuring Range:**

0,01  $\Omega$  - 100  $\Omega$   
(0 -50  $\Omega$  on analogue scale)

**Open Circuit Voltage:**

5 V  $\pm 1$  V

**Short Circuit Current:**

205 mA,  $\pm 5$  mA (0 to 10  $\Omega$ )  
( $> 20$  mA up to 100 ohms)

**Accuracy (at 20° C)**

±3% ±2 digits

**Zero Offset Adjust:** 0 - 9 Ω**Continuity Buzzer****NLINS300:** Operates at <5 Ω**NLINS320:** Adjustable 1 Ω to 20 Ω**Resistance range (NLINS320)**

(can be used for diode testing)

**Measuring Range:** 10 Ω - 1 MΩ**Open Circuit Voltage:** 5 V**Short Circuit Current:** 1.5 mA,**Accuracy (at 20°C):** ±5% ±2 digits**Voltage range****Measuring Range:** 0 - 600 V a.c. (50/60 Hz) or d.c.**Accuracy (at 20° C)**

d.c. or a.c. (50/60Hz): ±1%, ±2 digits

**Temperature coefficient:** <0,1% per °C on all ranges.**Default voltmeter**

all test modes except off

**NLINS320:** >25 V a.c. or d.c. is applied display will operate as a voltmeter**NLINS300:** Beeps and flash 'V' on the display**Test inhibit:** If more than 50 volts is detected, testing will be inhibited.**AutoPower Down:**

Auto power down operates after 10 minutes if left in standby mode.

**Environmental****Operating Range:** -10°C to +60°C**Operating Humidity:** 93% R.H. at +40°C max.**Storage Range:** -25°C to +70°C**Dimensions**

All units 192 x 140 x 72 mm

**Fuses****Terminals:**500 mA (F) 600 V, 32 x 6 mm Ceramic  
HBC 50 kA minimum.**Safety**

Meets the requirements of EN61010-1 Cat III 600 V phase to earth. Refer to safety warnings supplied.

**Automatic discharge**

After an insulation test the item under test will be discharged automatically. Any voltage present will be indicated on the display so that the discharge can be monitored.

**Power supply****Battery:** 8 x 1,5 V cells IEC LR6 type(AA alkaline).  
Rechargeable NiCAD or NiMH cells may be used.

Battery condition is constantly shown on the display as a four-section bar graph.