



# DIGITAL INDICATOR

4½ digit 25mm high display

TYPE 550-2

- **High brightness 25mm LED display**
- **User configurable scaling to ranges within +19999 to -19999**
- **Accepts most standard process signals**
- **Universal mains power** (85 to 265 VAC)  
**or optional LV supply** (11 to 32 VDC / 12 to 24 VAC)
- **Unplugable connectors**
- **Custom made legends**
- **Optional splash resistant front panel**  
(up to IP65)



The 550-2 provides a scaleable display of an analogue signal in engineering units. With high brightness 25mm LED displays, this instrument offers solutions for applications where long-range readability is important.

User configurable scaling to ranges within +19999 to -19999, input signal selection and universal mains power enable spares/stock holding to be kept to a minimum.

## Inputs

The input may be user configured to accept most standard voltage and milliamp process signals. Three milliamp and two voltage input types are catered for and are selected by an internal switch and link combination (non-standard inputs are available to order).

## Scaling

Scaling in engineering units may be set to any portion of the display range i.e. within the range -19999 to +19999 (minimum span 2000 counts). The required readouts at full scale and zero are set by internal switches and trimming controls.

## Below zero reading suppression

Useful for raised zero inputs, readouts below zero can be blanked to indicate an error condition e.g. below 4mA on a 4-20mA signal. When this mode is selected a '-' sign only is displayed. This is a factory-set option and is not user adjustable.

## Decimal points

The decimal point position is selectable by a switch behind the display window.

## External control

The following features are provided via terminals at the rear of the instrument.

### ■ Hold reading

Holds the readout at the value currently sampled by the analogue to digital converter. Hold is activated either by an external signal of 5-12 Vdc or by using the 5V signal provided.

### ■ Display blanking

Switches off the readout - activated by a volt-free contact closure.

### ■ Lamp test

Verifies the operation of the segments on the LED display - activated by a volt-free contact closure.

## Legends

Custom made legends, e.g. depicting engineering units and/or process description, can be supplied at no extra cost.

## Splash resistant front panel

A flexible transparent rubber hood offering protection up to IP65 is available.

## SPECIFICATION

### DISPLAY

Type: 25mm high brightness red LED  
Range: 4.5 digit (-19999 to +19999)  
Sample rate: 2.5 per second  
Overrange display: all zeros flashing  
Polarity: automatic with '-' displayed

### ACCURACY

± 0.1% FS ±1 digit (when works calibrated)

### LINEARITY

±1 digit

### INPUTS *(others available to order)*

Current 0-10mA, 4-20mA, 0-20mA  
Voltage 0-5V, 1-5V  
Input impedance: Current 100 ohms  
Voltage 470 k ohms  
Input protection: Voltage inputs 250V RMS or DC  
Current inputs 100mA

### CONFIGURATION

The instrument is configured by means of internal switches, links and trim controls.

#### Internal user adjustable settings:

Scaling: to any portion of the display range  
(minimum span 2000 counts)  
Input signal type *(see Inputs above)*  
True/raised zero input  
Decimal points: switch selectable  
Zero offset polarity

#### External control:

Blank display, Lamp test, Hold reading

### FIXED OPTIONS *(available at time of ordering only)*

Below zero display suppression

### TEMPERATURE COEFFICIENT

± 100ppm/ deg C typ.

### ENVIRONMENTAL

Temperature range:  
operating -10 to +50 deg C;  
storage -20 to +70 deg  
Humidity: 0-95% RH non-condensing

### POWER SUPPLY

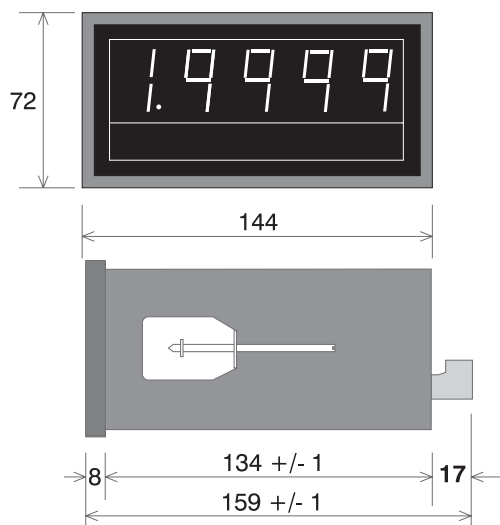
Universal AC supply 85 VAC to 260 VAC, 50/60Hz 3VA  
Protected by an internal fusible resistor.  
Low voltage: 11-32 VDC 4W / 12-24VAC  
Protected by a 500mA internal self-resetting fuse.

### SAFETY & EMC

Safety: EN61010-1  
Immunity: EN61000-6-2:1999  
Emissions: EN50081-2:1994  
FCC CFR47: July 2001 Part 15 Class A  
CE certified

### MECHANICAL

Weight: 450g  
Connectors: Separate un-plugable screw terminal type for supply and signal  
Wire capacity: 0.2 - 2.5 sq. mm; (24 - 12 AWG)  
Dimensions (mm)  
Panel cut-out 68 (+0.7, -0) x 138 (+1, -0)



### ORDERING INFORMATION

Please supply the following:

- |                                       |  |  |
|---------------------------------------|--|--|
| <input type="checkbox"/> Input signal | <input type="checkbox"/> Display scaling                     | <input type="checkbox"/> Below zero display suppression option |
| <input type="checkbox"/> Legend       | <input type="checkbox"/> Splash resistant front panel option |  |



**THIS UNIT CAN BE MAINS POWERED, AND ALL INPUTS TO IT MUST BE ISOLATED FROM DANGEROUS VOLTAGES BEFORE THE FRONT COVER IS REMOVED. LIVE TERMINALS WILL BE EXPOSED.**

Continuous development may necessitate changes in these details without notice

# SIL

**STROUD INSTRUMENTS LTD.**  
36-40 Slad Road, Stroud, Glos. GL5 1QW, England  
Telephone: +44 (0)1453 765433 Fax No: +44 (0)1453 764256  
[www.sil.co.uk](http://www.sil.co.uk)