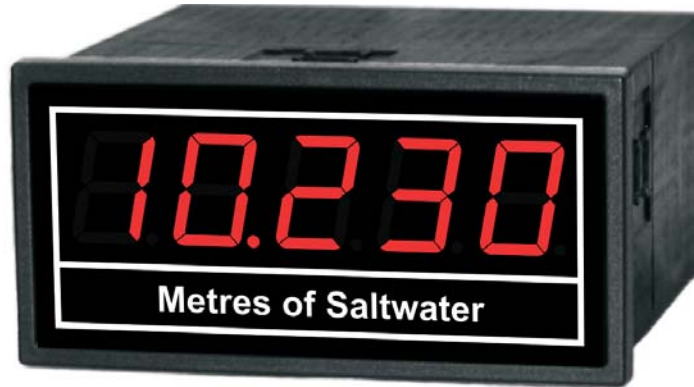


DIGITAL INDICATOR

4½ digit 25mm high display

TYPE 550-2B

- *High brightness 25mm LED display*
- *User configurable scaling to ranges within +19999 to -19999*
- *Accepts most standard V and mA process signals*
- *24V auxilliary supply for 4-20mA transmitters*
- *Display hold*
- *Peak reading facility*
- *Configurable for reversed reading*
- *Universal AC/DC powered (85 - 265 VAC, 24 - 200 VDC)*
- *Unplugable connectors*
- *Custom made legends*



The 550-2B 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 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. Input types 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.

Decimal points

The decimal point position is switch selectable.

Reversed reading

Reversed reading can be configured. e.g. with 4mA input the display can be set to read '15000' and with 20mA input, to read '0'.

External control

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

■ Peak reading

When activated only the highest input signal reading is displayed. Subsequent measurements are compared with the previous result. If the new value is larger than the previous peak value, the new value is displayed. If the new value is less than the previous peak value, the display remains unchanged.

■ Hold reading

Holds the readout at the current value whilst the activation signal is maintained.

■ Display brightness

■ Display blanking

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

Legends

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

Splash resistant front panel

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

Specifications

Display

Type: 25mm high brightness red LED
Range: 4.5 digit (-19999 to +19999)
Sample rate: 2.5 per second
Overrange display: 1-----
Underrange display: -1-----
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 0-1V, 0-5V, 1-5V
Input impedance: Current 100 ohms
Voltage 240 k ohms
Input protection: Voltage inputs 250V RMS or DC
Current inputs 100mA

Configuration

The instrument is configured by means of internal switches and link and external trim controls.

Internal user adjustable settings:

Scaling: 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

Externally controlled options:

Display blanking, Hold reading, Peak reading, Display brightness

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

85 - 260 VAC 50/60Hz, 24-200VDC (3W nominal)

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)
D: 155 (including connector), H: 72, W: 144,
Panel cut-out 68 (+0.7, -0) x 138 (+1, -0)

Electrical Connections



WARNING: these details are provided for pre-sales information only. Installation must be carried out in accordance with the User Guide.

Signal

- 1 — Voltage input (+) or 24V Output
- 2 — Current input (+)
- 3 — Input signal (—)
- 4 — +5 Volts *
- 5 — Display blank
- 6 — Peak reading
- 7 — Hold reading
- 8 — 0 Volts *

Supply

- 9 — Line / + DC
- 10 — Neutral / — DC
- 11 — Earth

* for use with externally controlled options only

Information Required When Ordering

Standard Unit

Standard units are supplied with the following default settings

Input: 4-20mA, **Display:** 0-100.00, **Legend:** %

Order Code: 550-2B

Pre-configured Units

Order Code: 550-2B /9

Followed by:

- Input signal
- Display scaling
- Legend

Splash resistant front panel option

Order Code: 550-COV



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

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