

Specification Summary

Inputs

4-20mA, or 10-50mA.

Input Volts Drop

2 Volts

Over Range

The three least significant digits will be suppressed for inputs greater than full scale (i.e. only '1' is displayed).

Digit Height

12.7mm

Maximum Reading

1999

Decimal Points

Selectable by programming links and can be set to 1.999, 19.99 or 199.9

Sample Rate

Approximately 2.5 / sec.

Calibrated Accuracy

Set within $\pm 0.1\%$ of FSD at full scale.
(Factory set with external calibration signal).

On Board Calibration Signals

Provided that a minimum loop current of 4mA (4-20mA models) or 10mA (10-50mA models) is flowing, on board zero and full scale calibration signals are available.

Calibration Temperature

$25^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Linearity Errors

± 1 digit

Temperature Coefficient

Typically 100 ppm / $^{\circ}\text{C}$

Temperature Range

Storage: -30 to $+60^{\circ}\text{C}$

Operation: -10 to $+55^{\circ}\text{C}$

Enclosure

Material: Polycarbonate

Colour: Light Grey with Clear Lid

Cable Entries: 2 off M16 Cable Glands are fitted to the bottom of the enclosure.



LOOP POWERED INDICATOR

TYPE 122-20

Installation and Set-up Procedure

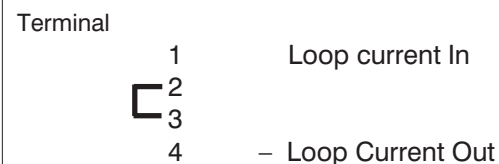
Installation

This unit is designed to be fitted to a suitable flat surface using the four 4.2mm fixing holes provided (see diagram overleaf). To gain access to the mounting holes, release the four screws securing the lid, unplug and set aside the front cover / electronics assembly. Install the base section of the unit in the desired location. Two M16 cable entry glands are provided. Connect the field wiring to the terminal block on the back-plate (see 'Terminations'). If the indicator requires calibration at this point refer to the 'Calibration' section. Plug in the front cover / electronics assembly and secure the lid.

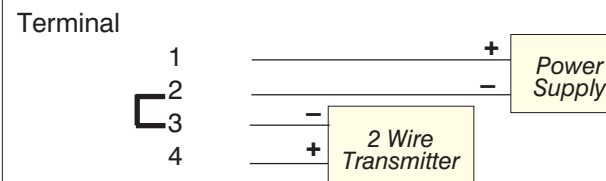
TERMINATIONS

NB: Terminals 2 & 3 are connected together, but not to internal circuits, and may be used for looping cables.

a) Simple connection to 2 wire loop



b) Connection to 2 Wire transmitter & Power Supply



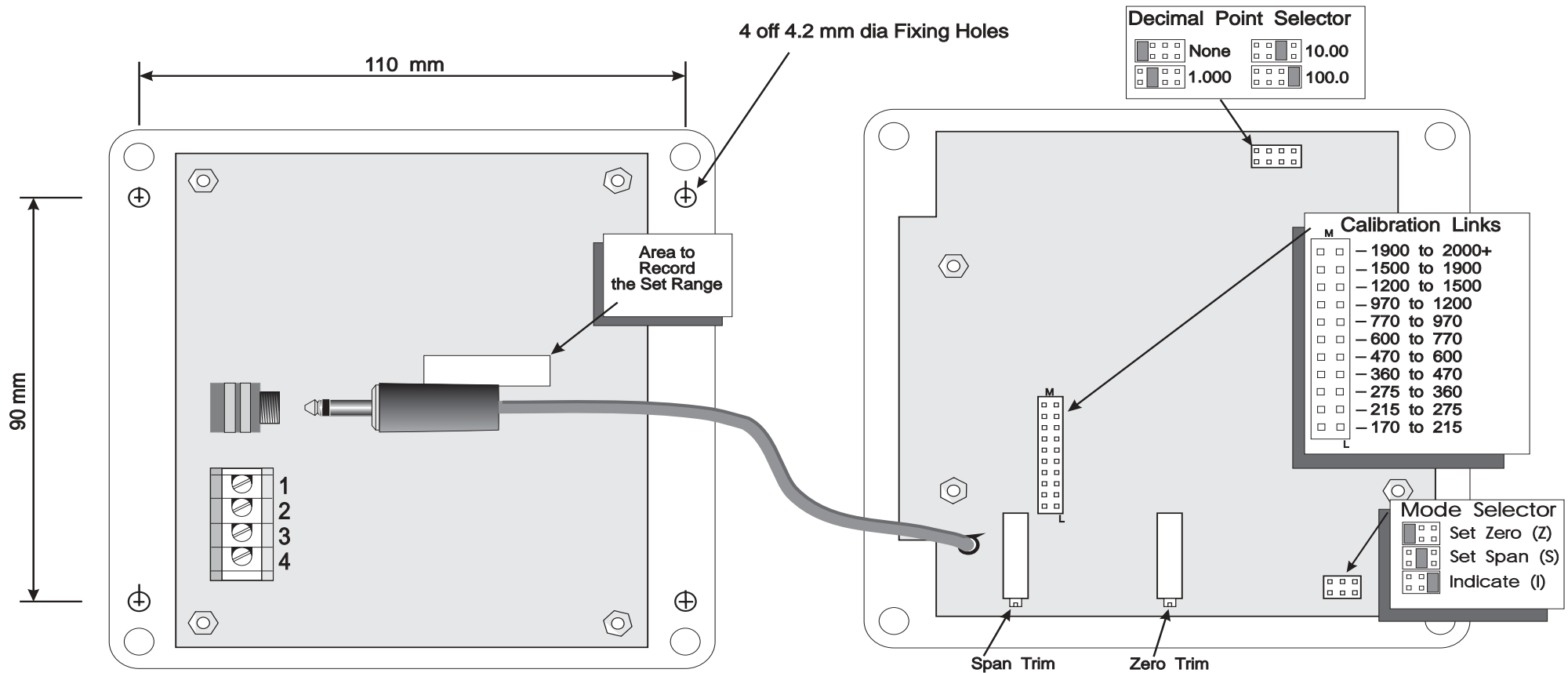
Continuous development may necessitate changes in these details without notice.

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On Site Calibration

NB a current of between 4 and 20mA (4-20mA model) or 10 and 50mA (10-50mA model) must be flowing.

- Select the 'Calibration Link Position' which caters for the desired full scale figure.
- Fit the 'mode' selector programming link into the 'Z' (set zero) position.
- Adjust the 'zero trim' potentiometer until the display reads zero.
- Fit the 'mode' selector jumper into the 'S' (set span) position.
- Adjust the 'span trim' potentiometer for the desired full scale figure.
- Fit the mode selector jumper into the 'I' (Display Input) position.
- Select the required decimal position using the selector at the top of the board.
- Record the calibrated range on the white 'FSD Set To' area provided on the back-plate.

Legends

Legends can only be fitted or changed if the front panel label is supplied separately for fixing by the user. Trim the legends supplied to the crop marks or, if being made up by the user, to the following sizes:- Top Legend 69 x 7 mm, Side Legend 18 x 18 mm and Bottom Legend 69 x 11 mm. Windows for which no legends are required should be filled with a blank. Locate the legends in the recesses on the rear face of the front panel label. Remove the front panel label backing sheet, then refit leaving approximately 25 mm of adhesive exposed at one edge. Carefully align the label with the front cover, then press the outer edge of the label into position. Ensure that any legends fitted are still in place before finally removing the remainder of the backing sheet and pressing the label into position.

IMPORTANT Position label carefully - once in place it cannot be moved.