

The DEETER Group®



Deeter Current Loop Indicator



Front view of the DCLI



Rear view of the DCLI

The DCLI (Deeter Current-Loop Indicator) is an easy-to-mount display module designed to work with any 4-20mA* process sensor. The integral display consists of four 7-segment LEDs with a display range from -999 to 9999 and with a user selectable decimal point position. The calibration procedure will allow any number in the display range to represent the minimum loop current and any other number, the maximum current#, thus most units of measurement can be represented and it is possible to have an inverted display (i.e. a 20-4mA indicator) if required.

The module incorporates two relays which can be individually configured to operate at any displayed threshold⁺⁺. Separate ON and OFF settings allow the amount of hysteresis to be chosen, and also allows the user to decide whether a relay is open at low current/closed at a higher current or operates the other way round – open at high current/closed at a lower current. For switching high-voltage or high-current loads, the on-board relays can drive external slave relays – see the Deeter Dual Level Controller (DLC 1 or DLC II).

* 0-20mA operation is also available, user selectable during calibration.

Calibration assumes a linear relationship between loop current and display.

++ Relays have normally-open contacts and will be open when there is no power.

Specifications

Supply Voltage Range	7 – 26Vdc	Current Loop Resistance	100Ω
Supply Current	<100mA	Relay Contacts	48V ac/dc 0.5A
Current Loop Voltage	30Vdc Max	Operating Temperature	-5° to +60°C
Current Loop Range	0mA – 21mA	Display Range	-999 to 9999
Accuracy (overall error)	+/- 0.1% (+/- 1 count)	Environmental	IP40. IP55 when fitted to a suitable enclosure.
Dimensions (mm)	Height = 37 Depth = 70 Width = 76	Required panel cut out size	69.3mm x 29.3mm

Ordering Information

Description	Ordering Code
Deeter Current Loop Indicator 1 (DCLI)	DE012 - 0104

All electrical equipment should be installed by a qualified electrician.

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