

# 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<sup>#</sup>, 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<sup>++</sup>. 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.

<sup>#</sup> Calibration assumes a linear relationship between loop current and display.

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

## Specifications

<b>Supply Voltage Range</b>	7 – 26Vdc	<b>Supply Current</b>	<100mA
<b>Current Loop Voltage</b>	30Vdc Max	<b>Current Loop Range</b>	0mA – 21mA
<b>Current Loop Resistance</b>	100Ω	<b>Relay Contacts</b>	48V ac/dc 0.5A
<b>Display Range</b>	-999 to 9999	<b>Current Measurement Accuracy</b>	+/- 0.2% (+/- 1 count)
<b>Operating Temperature</b>	-5° to +60°C	<b>Environmental</b>	IP40. IP55 when fitted to a suitable enclosure.
<b>Dimensions (mm)</b>	Height = 37 Depth = 70 Width = 76	<b>Required panel cut out size</b>	69.3mm x 29.3mm

## Ordering Information

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

DEETER Electronics  
Ltd

466 Commerce Street, Tallmadge, OHIO, 44278  
Tel: 001 330 630 3510 Fax: 001 330 630 3512  
Email: sales@deeterelectronicinc.com Website  
www.deeterelectronicinc.com

Distributed by: