

- HIGH ACCURACY
- HIGH TEMPERATURE STABILITY
- COMPLETE GALVANIC ISOLATION
- 3-YEAR WARRANTY



The DCI-2, a 2-wire isolated transmitter, accepts input voltage of up to 100Vdc or input current up to 100mA, generating a proportional 4-20mA process current.

Advanced auto-zero circuitry provide a unique degree of thermal stability.

Exceptional input to output high common mode rejection (CMR) and a high filtering level, eliminating false output signals and providing a low ripple output current.

The DCI-2 input spans of 4 to 100mV are calibrated via a DIP switch array. Spans from 100mV to 100Vdc is

divided into three sub- ranges (100mV..2.5V, 2.5..60V and 60..100V) are selected by changing a coarse range resistor mounted on special pins.

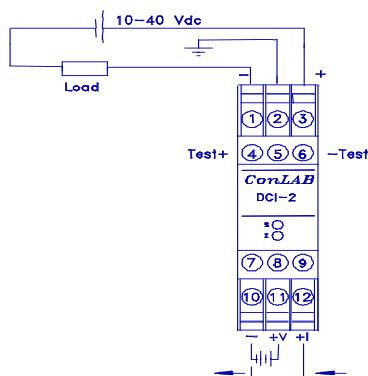
Six DIP switches set the sub-coarse ranging while almost non-interactive Zero & Span potentiometers are used for fine tuning.

The unit is housed in a polycarbonate plastic enclosure mounted on a standard DIN rail.

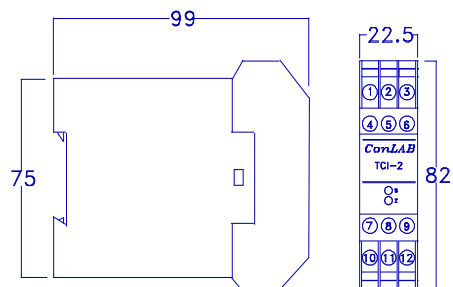
To obtain high density installation DCI-2 units can be mounted side by side, with no wasted space.

INPUT: DC voltage or current	RESPONSE TIME: 160 msec (0-98%)
INPUT RANGES (for full span): Low voltage range: 4mV to 100mV High voltage range: 100mV to 100V Current range: 4μA to 100mA	ACCURACY Including linearity, hysteresis and repeatability: < ± 0.08% of span
INPUT IMPEDANCE: Low voltage range: >100 MΩ High voltage range: >2 MΩ Current input: 5Ω Protected current input (option): 70Ω	INPUT ZERO CHANGE: ±15% of span Zero Calibration: Three DIP switches and "Zero" potentiometer INPUT SPAN CHANGE: ±15% of span Span Calibration: Three DIP switches and "Span" potentiometer
OUTPUT: 4 - 20 mA, 25 mA (limited)	CMR: 127db typical dc to 60 Hz
LOOP RESISTANCE:  $R_{max}(\Omega) = (V_{supply} - 10) / .02$	TEMPERATURE STABILITY: < ±0.008 %/1°C of span
SUPPLY VOLTAGE: 10..40 Vdc	OPERATION TEMPERATURE: -20 to +70°C Option: -30 to +80°C
SUPPLY AND LOAD VARIATION EFFECT: Less than ± 0.03% of span	STORAGE TEMPERATURE: -30 to +85°C
ISOLATION: 1500 V dc or peak ac	HUMIDITY: 5 to 95% relative, non-condensing
	HOUSING: Plastic polycarbonate Box: According to IP-40 Terminals: According to IP-20
	MOUNTING: Standard 35 mm DIN rail

Connection Diagram



Dimensions (mm)



data subject to change without notice

**ConLAB**  
 Control Laboratories Ltd