

INNOVEC

CONTROLS PTY LTD

INNOVEC DI35 POWERED PROCESS INDICATOR



The **DI35 Powered Process Indicator** is a 120/240VAC or 9-36VDC powered 3.5 digit (1999 count) process indicator supplied in a panel mount enclosure with a 14.2mm high LED display which is range able in engineering units for millivolt, milliamp and voltage inputs. An optional 24VDC at 30mA loop supply is available for the direct connection of 2 wire transmitters.

FEATURES

- Accepts all standard process signals
- User range able in engineering units
- Band gap reference
- Differential input
- 120 or 240VAC 47-63 Hz supply or factory fitted 12 to 24vdc isolated supply
- 3.5 digit high brightness LED display
- The DI35 has a 14.2mm digit height
- Decimal point selection
- Optional Parallel BCD output
- The DI35 is supplied in 48x96mm DIN enclosure
- Isolated power supply of 24VDC for loop powered sensors and transmitters
- Applications include the display of flow, level, pressure and speed

The DI35 Powered Process Indicators are advanced instruments which have been designed and manufactured to stringent specifications.

The instruments have been designed to accept all the standard analogue process signals. The input measurement is shown on a high contrast LED display. The DI35 incorporates an LSI CMOS 2000 count dual slope integrating analogue to digital converter which is designed to reject electrical interference that normally abounds in industrial environments. The front panel of the DI35 series are sealed to IP65 and the instrument includes screw terminal electrical connection.

TECHNICAL SPECIFICATIONS

Input Details

- The instrument has a bipolar differential input and a temperature compensated Band gap reference. Full scale ranges of 20mV to 200VDC 200uA to 2Amps and 4-20mA are acceptable.
- CMRR greater than 86db.
- NMRR greater than 100db.

Display

- A 3.5 digit high contrast light emitting diode (LED) with a wide viewing angle.
- The DI35 has a digit height of 14.2mm.

Decimal Points

- Three (3) position user selectable by push on jumper.

Environmental Parameters

- 0-70 degrees Celsius.
- 0-90% RH NON condensing.

Connection Details

- Rear mount 10 way screw terminal strip
- Terminal 1:input common(-) for mA, volts, frequency
- Terminal 2:input (+) for mA and frequency
- Terminal 3:input (+) for 0-10 volt input
- Terminal 4:24VDC loop supply
- Terminal 5:not used
- Terminal 6:not used
- Terminal 7:not used
- Terminal 8:VAC active supply or 24VDC (+)
- Terminal 9:VAC neutral supply or 0VDC (-)
- Terminal 10:Ground supply

Instrument Power Supply

- 120/240VAC 47-63 Hz or factory fitted DC to DC converter isolator from 5 to 48VDC.

Transducer Power Supply

- A 24VDC at 30mA transducer power supply is incorporated in the instrument.

Weight

- DI35 is 300grams.

Mounting Details

- **DI35:** Impact resistant panel mounting plastic enclosure of dimensions 96mm wide by 48mm high by 105mm deep with a panel cut out of 93mm wide by 45mm high.

Instrument Calibration

- The instrument is calibrated by selecting the required display range on a 4 position dip switch and then adjusting the zero and span potentiometers to get the required units on the display.
- Switch 1 open,2,3 and 4 closed = 32 to 100
- Switch 2 open,1,3 and 4 closed = 100 to 300
- Switch 3 open,1,2 and 4 closed = 300 to 500
- Switch 4 open,1,2 and 3 closed = 500 to 1000
- Switch 1, 2, 3, 4 open = 700 to 1999

Ordering Information

- Model/input signal/display units/power supply.
- Sample number: DI35/4-20mA/0-100.0/240VAC.
- All units shipped factory calibrated to 0-100.0.