

INNOVEC

CONTROLS PTY LTD

INNOVEC DIR4NR POWERED PROCESS INDICATOR



The **DIR4 Powered Process Indicator** is a 120/240VAC or 18-36VDC powered 4.5 digit process indicator supplied in an extruded aluminium panel mount enclosure. The instrument is touch switch programmable from the front panel for input range. A 24VDC at 30mA loop supply is available for the direct connection of 2 wire transmitters.

FEATURES

- Accepts all standard process signals
- Digital instrument with touch switch programming of all functions - input range, display intensity and decimal point position.
- Eeprom storage of programmable variables
- Differential input
- Low cost - High performance
- 120 or 240VAC 47-63 Hz supply or factory fitted 18 to 24vdc isolated supply
- 4.5 digit high brightness LED display of 25mm digit height
- Decimal point programming
- Panel mount enclosure of 72x144mm with sealed weatherproof front
- 24VDC loop supply for loop powered sensors and transmitters.
- Emc compliant (C tick)

The DIR4 Powered Process Indicator is an advanced instrument which has been designed and manufactured to stringent specifications which accept all the standard analogue process signals and provides screw terminal electrical connection by two part plug connectors allows simple connection and disconnection.

TECHNICAL SPECIFICATIONS

Input Details

- The instrument has a bipolar differential input. To realise the accuracy a temperature compensated band gap reference is used in the radiometric measurement system. Full scale ranges of 20 MV to 200VDC 200uA to 2 Amps and 4-20mA are acceptable.
- A special range is available of 0-110VDC.
- CMRR greater than 86db
- NMRR greater than 100db

Display

- **DIR4:** A 4.5 digit high contrast light emitting diode (LED) of 25mm digit height with a wide viewing angle and a reading rate of 4 per second. The display intensity is programmable from the front panel. The digits have a viewing distance of 10 metres.

Decimal Points

- **DIR4:** Four (4) position user programmable from the front panel.

Connection Details DIR4	
Terminal 1:input low (-)	Terminal 11: not used
Terminal 2:mA input (+)	Terminal 12: not used
Terminal 3:volts input (+)	Terminal 13: not used
Terminal 4:24VDC loop supply	Terminal 14: not used
Terminal 5:not used	Terminal 15: not used
Terminal 6: not used	Terminal 16: not used
Terminal 7: not used	Terminal 17: not used
Terminal 8: not used	Terminal 18:120/240AC supply or 24DC (+)
Terminal 9: not used	Terminal 19:VAC neutral or 0VDC supply
Terminal 10: not used	Terminal 20: ground supply

Instrument Power supply

- 120/240VAC 47-63 Hz or factory fitted DC converter isolator from 12 to 40VDC.

Transducer Power Supply

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

Options

- A silicon boot is available to increase IP protection to 67.

Environmental Parameters

- 0-70 degrees Celsius.
- 0-90% rh non condensing.

Weight

- **DIR4:** 450 grams.

Mounting Details

- **DIR4:** Panel mounting aluminium enclosure of case dimensions 144mm wide by 72mm high by 85mm deep with a panel cut out of 138mm wide by 67mm high.

Ordering Information

- Model/input signal/display units/power supply
- Sample number: DIR4/4-20mA/0-100.0/VAC
- All units shipped factory calibrated to 0-100.0