

INNOVEC

CONTROLS PTY LTD

INNOVEC DIR4NR POWERED PROCESS INDICATOR



The **DIR4NR Powered Process Indicator** is a 120/240VAC or 12-40VDC 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
- Band gap reference
- 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
- Optional clear silicon boot to increase the weatherproof rating to IP67
- 24VDC loop supply for loop powered sensors and transmitters.
- Emc compliant

The DIR4NR 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

- **DIR4NR:** 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

- **DIR4NR:** Four (4) position user programmable from the front panel.

Connection Details DIR4NR	
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

- **DIR4NR:** 450 grams.

Mounting Details

- **DIR4NR:** 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: DIR4NR/4-20mA/0-100.0/VAC
- All units shipped factory calibrated to 0-100.0