

INNOVEC

CONTROLS PTY LTD

INNOVEC ISCX1 SIGNAL CONVERTER



ISC Din Rail Mount signal isolator is a 120/240VAC or 12-40VDC powered instrument which accepts an analogue input of mA or volts and converts it to an isolated 4-20mA or 0-10VDC output signal. A 24VDC loop supply for the direct connection of 2 wire transmitters is included.

FEATURES

- Din rail or gear plate mounting
- 24VDC loop supply
- Power supply of 120/240VAC or 12 to 40VDC
- Signal and power supply isolation
- 0.1% linearity
- Low cost - High performance
- Low input impedance on mA signals
- High input impedance on voltage signals
- Special ranges of inputs and outputs are available on request

The Innovec ISC is a single analogue input to single analogue output signal converter and isolator.

The ISC accepts many standard and non-standard input signals and generates a 4-20mA or 0-10VDC output signal. Most other standard process current or voltage output signals can be provided on request.

The ISC because of its versatile input to output combinations is a very flexible interface module. Low input impedance to current signals and high input impedance to voltage signals means the ISC can be inserted into existing systems without loss of performance.



TECHNICAL SPECIFICATIONS

Input Details

- 0-1mA into 1000 Ohms
- 0-20mA into 50 Ohms
- 4-20mA into 50 Ohms
- 0-50mA into 10 Ohms
- 0-1VDC into 20,000 Ohms
- 1-5VDC into 20,000 Ohms
- 0-10VDC into 20,000 Ohms
- 0-10VDC into 1 Meg Ohms
- on request
- 0-100VDC into 20,000 Ohms

Output Details

- Operational amplifier closed loop feedback circuit.
- Current output: 0/4-20mA into 500 Ohms.
- Voltage output: 0-10VDC into 10,000 Ohms minimum.
- Load effect: +/- 0.01% of span.

Performance

- +/- 0.1% of span (linearity and repeatability).

Isolation

- Power supply isolation of 500 volts rms. The instrument incorporates 3 port galvanic isolation (input to output and power supply).

Environmental Parameters

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

Connection Details

Terminal 1: input low (-)	Terminal 9 : not used
Terminal 2: mA input positive (+)	Terminal 10: not used
Terminal 3: volts input positive (+)	Terminal 11: not used
Terminal 4: +24VDC loop supply	Terminal 12: not used
Terminal 5: analogue output (-)	Terminal 13: not used
Terminal 6: analogue output (+)	Terminal 14: not used
Terminal 7: output 0VDC	Terminal 15: Vac active/24VDC supply
Terminal 8: output 0-10VDC	Terminal 16: Vac neutral/0VDC supply

Instrument Power Supply

- 120/240VAC 47-63 Hz or factory fitted DC to DC converter isolator with an input of 12 to 48VDC.

Transducer Power Supply

- 24 Volts DC at 30mA for powering 2 wire transmitters.

Weight

- 300gms.

Case Details

- Width: 55mm.
- Height: 75mm.
- Depth: 110mm.

Mounting Details

- Din rail mounting on C rail.

Options

- Weatherproof enclosure: WP.

Ordering Information

- Model/input/output/power supply/options.
- Sample no.: ISC/0-10VDC/4-20mA/240VAC.
- All units shipped factory calibrated 4-20mA to 4-20mA.