

INNOVEC

CONTROLS PTY LTD

INNOVEC FG4



The **FG4** is a 12-40VDC powered 4 digit (1999 count) Fuel Gauge supplied in a panel mount enclosure with a 12mm high OLED Graphics display with 2 alarm set points which can switch 240VAC at 1 amp with 99% dead band. The instrument is rangeable in engineering units for milliamp and voltage inputs. A 12 to 24VDC at 30mA loop supply is available for the direct connection of 2 wire transmitters.

FEATURES

- The FG4 is user rangeable in engineering units
- Band gap reference
- Differential input
- Low cost - High performance
- 24VDC isolated supply
- 3.5 digit high brightness OLED graphical display of 12mm digit height
- Two set point relays with form C contacts and a panel mount enclosure of 48x96mm
- 24VDC loop supply for loop powered sensors and transmitters
- Emc compliant
- Intended as an upgrade on Mercedes buses

The FG4 Fuel Gauge is an advanced instrument that has been designed and manufactured to stringent specifications which accepts 4-20mA and 1-5VDC analogue process signals.

The FG4 provides two (2) set point relays with 99% dead band. All the set point relays have changeover contacts and will switch one amp at 240VAC resistive. 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 range of 1-5VDC and 4-20mA are acceptable.
- CMRR greater than 86db
- NMRR greater than 100db

Display

- A 4 digit high contrast Organic light emitting diode (OLED) in sky blue of 12mm digit height with a wide viewing angle and a reading rate of 2.5 per second. The digits have a viewing distance of 5 metres.

Decimal Points

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

Relay Outputs

- Two (2) switch point relays are provided with form C contacts rated at 240VAC one (1) ampere resistive.

Connection Details Bottom Row	Connection Details Top Row
Terminal 1:input low (-)	Terminal 13: Not used
Terminal 2:input high (+)	Terminal 14: Not used
Terminal 3:Not used	Terminal 15: Not used
Terminal 4: Not used	Terminal 16: Not used
Terminal 5: Not used	Terminal 17: Relay low com contact
Terminal 6:24VDC Sensor Supply	Terminal 18: Relay low NC contact
Terminal 7: Not used	Terminal 19: : Relay low NO contact
Terminal 8: Not used	Terminal 20: Not used
Terminal 9: Not used	Terminal 21: Not used
Terminal 10: Not used	Terminal 22: Not used
Terminal 11:+24VDC gauge supply	Terminal 23: Not used
Terminal 12: :024VDC gauge supply	Terminal 24: Not used

Instrument Power supply

- 12 to 40VDC.

Transducer Power Supply

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

Environmental Parameters

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

Weight

- **FG4:** 300grams.

Mounting Details

- Panel mounting plastic enclosure of case dimensions 96mm wide by 48mm high by 161mm deep with a panel cut out of 91mm wide by 43mm high.

Ordering Information

- Model/input signal/display units/power supply
- Sample number: FG4/1-5V DC/0-250/24VDC
- All units shipped factory calibrated to 0-250