The FC7 is a loop powered instrument that converts the pulsed output from your flowmeter into an analogue 4-20mA signal.

Improves flowmeter performance ✓
- Quick and easy to install
- Preset to your requirements

Highly accurate ✓
- Monitor consumption and flow rates
- Improve your process
- Reduce costs and waste
- 8 point linearisation

High quality manufacture ✓
- High reliability
- Immunity to electrical noise
- ISO 9001 certified manufacturer
- Weatherproof enclosure

**Application**
The FC7 will convert a pulsed flowmeter signal into a loop powered 4-20 mA signal for instruments such as PLC’s, computers, flow controllers, chart recorders or local displays.

**Installation**
The robust aluminium enclosure allows the instrument to be installed almost anywhere. It can be mounted in a panel, on a wall or on to the flowmeter.

**Instrument Function**
The FC7 will accept pulsed signals from any flowmeter. It provides you with an analogue output of 4 - 20 mA. It improves the accuracy by correcting for the non linear performance of flowmeters.

**Setup**
The instrument is preset for your flowmeter using up to 8 linearisation points from the calibration certificate.
**FC7 FREQUENCY TO CURRENT CONVERTER**

**Specification**

**Construction:**
- **Protection:** IP65
- **Materials:** Aluminium with rubber gasket
- **Mounting:** On to the flowmeter by mounting bracket or surface mount via screw holes in the base corners
- **Temp. range:** 0 - 45 °C
- **Power input:** 2 wire 12 -28 V d.c. loop powered
- **Connections:** PCB mounted screw terminals via a weatherproof cable glands

**Input Signals:**
1. **Preamplifier:**
   - **Sensitivity:**
     - Low level <8mA
     - High level >11mA
   - **Input max:** 3.0V 100mA
2. **Proximity sensor:**
   - **Sensitivity:**
     - Low level <1mA
     - High level >3mA
3. **Pickoff coil:**
   - **Input min:** 15 mV RMS
   - **Input max:** 5V RMS
4. **Switch closure:**
   - **Energising voltage:** 5V
   - **Energising current:** 10 mA DC
5. **Voltage pulse:**
   - **Sensitivity:**
     - Logic low <1V
     - Logic high >2.5V
   - **Input max:** 40V

**Output:**
- **Max. load:** 4-20mA into 250 Ω @ 12 V dc
  - or 4-20mA into 1K Ω @ 28 V dc
- **Linearity:** 0.2 % of span
- **D to A converter:** 15 bit
- **Update time:** 4 Hz (standard unit)
  - 32 Hz (SP06)

**Dimensions**

- **Ft oI**
  - **CONVERTER**

Contact our flow measurement specialists for advice on your application

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