

# FC7 FREQUENCY TO CURRENT CONVERTER

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 to a wall or on to the flowmeter.

### Instrument Function

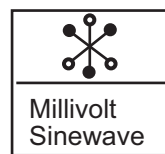
The FC7 will accept pulsed signals from any flowmeter. It provides you with an analogue output of 4 - 20 mA. It improves the accuracy by correcting for the non linear performance of flowmeters.

### Setup

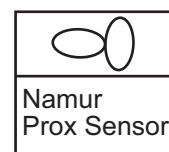
The instrument is preset for your flowmeter using up to 8 linearisation points from the calibration certificate.

### INPUT

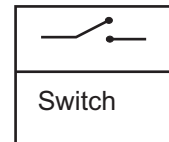
Peltflo  
Turbine



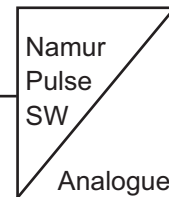
P.D. Flowmeter  
Lowflo



PT



FC7

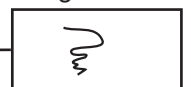


### OUTPUT

Computer

PLC

Analogue Recorder



Digital Indicator

345.78

Analogue  
Indicator



APOLLO

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## 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:** Frequency range 0 to 3 kHz

#### 1. Preamplifier:

Sensitivity: low level <8mA  
high level >11mA  
Input max: 3.0V 100mA

#### 2. Proximity sensor: Namur DIN 19234

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:

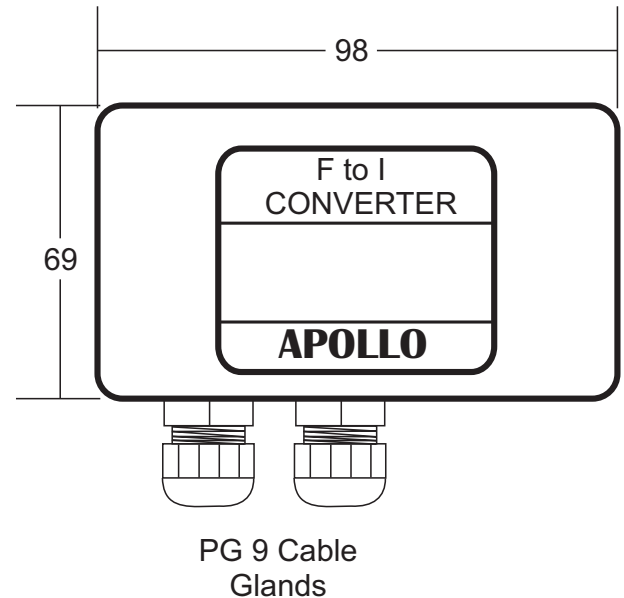
Max. load: 4-20mA into 250 Ω @ 12 V dc  
or 4-20mA into 1K Ω @ 28 V dc

Linearity: 0.2 % of span

D to A converter: 15 bit

Update time: 4 Hz (standard unit)  
32 Hz (SP06)

## Dimensions



Contact our flow measurement specialists for advice on your application

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Manufacturer

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APOLLO

