

# FC7 FREQUENCY TO CURRENT CONVERTER

The FC7 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  
10 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

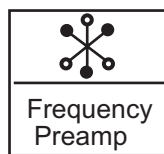
The FC7 will accept pulsed signals from any flowmeter. It provides you with an analogue output of 4 - 20 mA. It improves the accuracy by correcting for the non linear performance of flowmeters.

### Setup

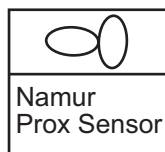
The instrument is preset for your flowmeter using up to 10 linearisation points from the calibration certificate.

### INPUT

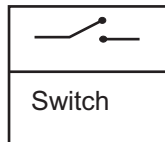
Peltflo Turbine



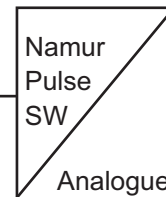
P.D. Flowmeter Lowflo



PT



### FC7

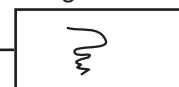


### OUTPUT

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 Or via screw holes in the base corners
Temp. range:	0 - 45 °C

**Power input:** 12 -28 V d.c. loop powered

**Connections:** PCB mounted screw terminals  
via a weatherproof cable gland

**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: 10 mV RMS at 100Hz  
45mV RMS at 3kHz

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 @ 12 V dc  
or 4-20mA into 1K @ 28 V dc

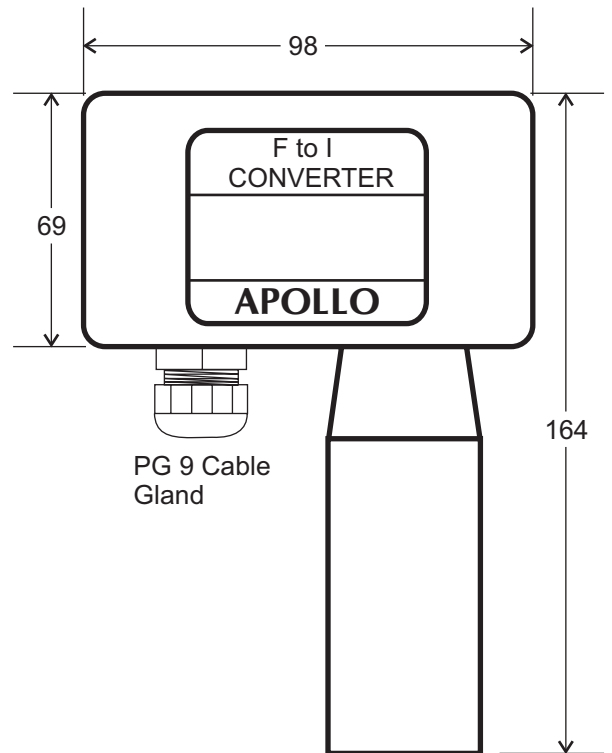
Response time: Approx. 400msec to 60%

Linearity: 0.2 % of span

D to A converter: 15 bit

Update time: 0.25 seconds

## Dimensions



**Contact our flow measurement specialists for FREE advice on your application**

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**website www.apolloflow.co.uk**

The expert advice and the calls are FREE  
So call now!

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ISO 9001 Cert. FM 31709