

# FC7-SP7 FREQUENCY TO CURRENT CONVERTER

The FC7-SP7 converts the output frequency from a turbine flowmeter into a linear 4-20ma output.

**Improves flowmeter performance ✓**  
Reduce costs and waste

**Highly accurate ✓**  
Monitor consumption and flow rates  
Improve your process  
8 point linearisation

**High quality manufacture ✓**  
High reliability  
Immunity to electrical noise  
ISO 9001 certified manufacturer  
Robust stainless steel enclosure

## Application

The FC7-SP7 converts the millivolt sinewave frequency output from a turbine flowmeter into a loop powered 4-20 mA signal for instruments such as PLCs, computers, flow controllers, data loggers or local displays. It has a 32hz update time making it ideal for hydraulic circuit or engine testing when a fast response to changes in flow are required.

## Installation

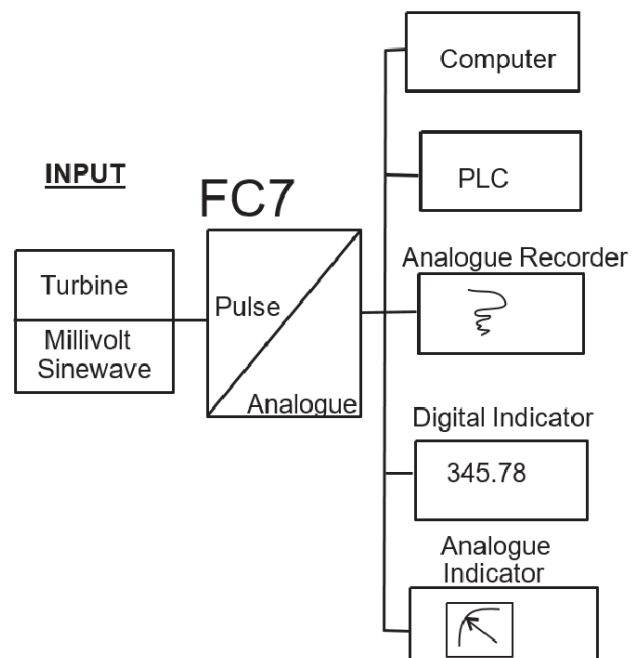
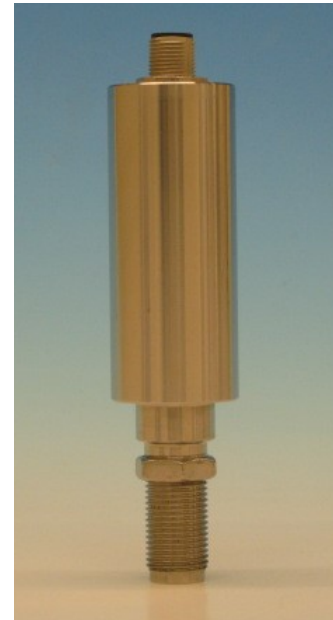
The FC7-SP7 has an integral variable reluctance sensor with a 5/8" -18 UNF thread, for connection to turbine flowmeters. Other thread sizes are available

## Instrument Function

The FC7-SP7 takes the frequency input from a turbine flowmeter and converts it to a 4-20ma analogue output. It is programmed with up to 8 points from the flowmeter calibration curve and linearly interpolates between each point. This improves the accuracy and extends the linear range of the flowmeter.

## Setup

The instrument is pre-set for your flowmeter using points from the calibration certificate. The 4ma and 20ma levels are set to your requirements.



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## Specification

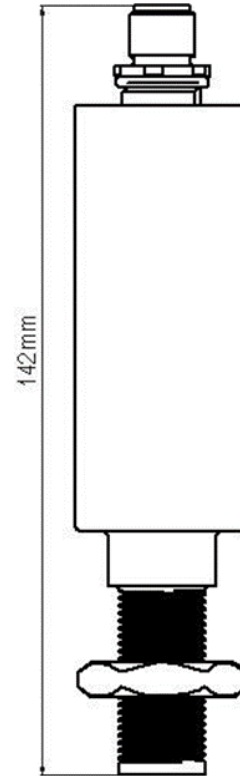
### Construction:

Materials:	303 Stainless steel
Mounting:	Onto the flowmeter with 5/8"-18 UNF thread
Temp.range:	-20 to 65°C
Ingress protection	IP67

### Technical Data:

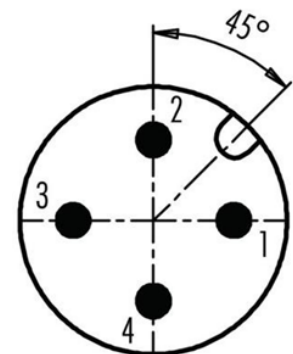
Voltage supply:	12-28V dc loop supply
Max load:	4-20mA into 250 ohms at 12V dc 4-20mA into 1K ohms at 28V dc
Linearity:	0.2% of span
Sampling rate:	32Hz
Max input frequency:	3 KHz
Connector:	M12 x 1 4 pin connector

## Dimensions



### Pin Assignment:

- Pin 1 : Loop +
- Pin 2 : Comms
- Pin 3 : Comms ground
- Pin 4 : Loop -



Contact our flow measurement specialists for advice on your application

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**APOLLO**