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 4-20mA 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.

**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.

**Application**

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.

**Installation**
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.

**Instrument Function**

The instrument function diagram shows the flow from turbine to computer and other instruments.

**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.
FC7-SP7 FREQUENCY TO CURRENT CONVERTER

**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

**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

**Tel:** 01922 645647  **Tel:** 01922 640326  
**e:mail** sales@apolloflow.co.uk  **website** www.apolloflow.co.uk

Apollo Flowmeters, Charles Street, Walsall  WS2 9LZ

Manufactured in the UK