Apollo can provide you with a range of accessories for Intrinsically Safe areas and areas with high electrical noise.

**P5 Preamplifier**

The P5 preamplifier mounts on to your flowmeter and converts the pickoff coil signal to a current pulse which is suitable for transmitting long distances and in areas of high electrical noise.

**Specification**

- **Input signal:** Sine wave
  - 5mV rms at 100Hz
  - 7mV rms at 500Hz
  - 10mV rms at 1 kHz
  - 30mV rms at 3 kHz
- **Frequency range:** 0 - 3kHz
- **Power supply:** 4 to 40 V dc
- **Temperature:** -20 to 70 °C
- **Output pulse:** Sine wave current
  - low level < 8 mA
  - high level > 12 mA

**IS P5 Preamplifier**

The Intrinsically Safe P5 preamplifier approved to ATEX II 1 G Ex ia IIC T5 / T4 Ga mounts on to your flowmeter in the hazardous area and converts the flowmeter signal to a current pulse which is suitable for transmitting long distances and in areas of high electrical noise in to the safe area.

**Specification**

- **Input signal:** Sine wave
  - 5mV rms at 100Hz
  - 7mV rms at 500Hz
  - 10mV rms at 1 kHz
  - 30mV rms at 3 kHz
- **Input sensitivity:** 10 mVrms minimum
- **Frequency range:** 10 - 3kHz
- **Power supply:** 7 to 30 V dc
- **Temperature:** -20 to 70 °C
- **Output pulse:** Sine wave current
  - low level < 8 mA
  - high level > 12 mA

ATEX II 1 G Ex ia IIC T5/T4 Ga (-20°C<40°C/+70°C) Ui=22V
ATEX II 1 G Ex ia IIB T5/T4 Ga (-20°C<40°C/+70°C) Ui=30V
PICKOFF COIL SENSORS

The pickoff coil is the sensor used in turbine and pelton wheel flowmeters.

**Specification**
- Inductance: 450 mH
- Resistance: 1200 Ω
- Thread connection: 5/8" UNF
- Output: mV sinewave
- Output connection: MS style connector

<table>
<thead>
<tr>
<th>Pickoff coil type</th>
<th>Part Number</th>
<th>Temp. range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>SEN-664001</td>
<td>-55°C to +110°C</td>
</tr>
<tr>
<td>High temp.</td>
<td>SEN-664002</td>
<td>-55°C to +232°C</td>
</tr>
</tbody>
</table>

The IS pickoff coil is for use in hazardous areas in turbine and pelton wheel flowmeters.

**Specification**
- Approval: ATEX I I1GE xi aI I CT 5/T 4G a
- Inductance: 450 mH
- Resistance: 1200 Ω
- Thread connection: 5/8" UNF
- Output: mV sinewave
- Connection: 2 core plus screen flying lead
- Temperature range: -20°C to +100°C
- ATEX II 1G Ex ia IIC T5/T4 Ga (-20°C≤T≤80°C/+100°C)