



UK Flowtechnik

Specialists in flow metering, pumps, couplings
and process measurement equipment



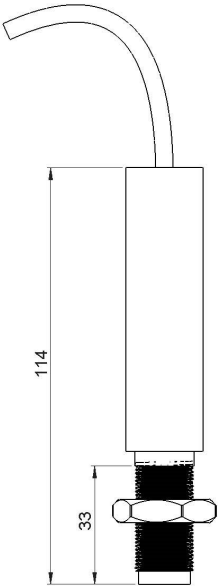
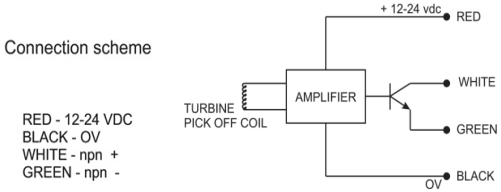
PRODUCT DATASHEET

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RN Flowmeter Sensors, Amplifiers and Converters

	<p>Standard & high temperature pickoff coil can be used with all RN axial turbines (can be fitted with M20 adaptor for directly mounting a RT40 or RT14 Display)</p> <p>Specification</p> <p>Inductance: 450 mH Resistance: 1200 Thread connection: 5/8" UNF Output: mV sinewave Output connection: MS style connector</p> <table border="1"> <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>-55⁰C to +110⁰C</td> </tr> <tr> <td>High temp.</td> <td>SEN-664002</td> <td>-55⁰C to +232⁰C</td> </tr> </tbody> </table>	Pickoff coil type	Part Number	Temp. range	Standard	SEN-664001	-55 ⁰ C to +110 ⁰ C	High temp.	SEN-664002	-55 ⁰ C to +232 ⁰ C
Pickoff coil type	Part Number	Temp. range								
Standard	SEN-664001	-55 ⁰ C to +110 ⁰ C								
High temp.	SEN-664002	-55 ⁰ C to +232 ⁰ C								
	<p>Intrinsically Safe pickoff coil can be used with all RN axial turbines for use in hazardous areas (can be fitted with M20 adaptor for directly mounting a RT14 Display)</p> <p>Specification</p> <p>Approval: ATEX II 1 G Ex ia IIC T5 / T4 Ga Inductance: 450 mH Resistance: 1200 Thread connection: 5/8" UNF Output: mV sinewave Connection: 2 core plus screen flying lead Temperature range -20⁰C to +100⁰C ATEX II 1G Ex ia IIC T5/T4 Ga (-20⁰C Ta 80⁰C/+100⁰C)</p>									
	<p>PPW-SP3 Amplified Pulsed</p> <p>Amplified pulsed conditioner is recommended when transmission distances exceed 4 metres, there is an electrically noisy environment or you are using instruments which are not compatible with a millivolt sinewave output signal, such as PLCs and computers.</p> <p>Specification</p> <p>Housing: 304 Stainless Steel with 5/8" UNF - 18 thread Cable: 4m flying lead (4 core screened) Power Supply: 12-24 Vdc Output: NPN Open collector Max Voltage: 30 Vdc Max Current: 25mA</p> <p>Connection scheme</p>  <p>RED - 12-24 VDC BLACK - OV WHITE - npn + GREEN - npn -</p>									

<p style="text-align: center;">P5 NAMUR AMPLIFIED PULSE</p> <p style="text-align: center;">PG 9 Cable Glands</p>	<p>IS P5 Amplified Current Pulsed Output</p> <p>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.</p> <p>Specification</p> <p>Housing: IP65 Aluminium enclosure (supplied with Stainless Steel mounting bracket for turbines)z</p> <p>Power supply: 7 to 30 V dc</p> <p>Temperature: -20 to 70 °C</p> <p>Output pulse: Sine wave current, low level <8 mA high level > 12 mA</p> <p>ATEX II 1 G Ex ia IIC T5/T4 Ga (-20⁰C Ta<40⁰C/+70⁰C) Ui=22V</p> <p>ATEX II 1 G Ex ia IIB T5/T4 Ga (-20⁰C Ta<40⁰C/+70⁰C) Ui=30V</p>						
<p style="text-align: center;">F to I CONVERTER</p> <p style="text-align: center;">PG 9 Cable Glands</p>	<p>FC7 2 wire 4-20 mA Output</p> <p>The FC7 will convert a pulsed flowmeter signal into a loop powered 4-20 mA signal with up to 8 points of linearisation for instruments such as PLC's, computers, flow controllers, data loggers or local displays.</p> <p>Specification</p> <p>Housing: IP65 Aluminium enclosure (supplied with Stainless Steel mounting bracket for turbines)</p> <p>Temperature: 0-45°C ambient</p> <p>Power Supply: 12-28 Vdc</p> <p>Output: 4-20 mA loop powered (2 wire)</p> <p>Update Time: 4 Hz</p> <p>Max Load: 250 Ohms at 12 Vdc, 1kOhm at 28 Vdc</p> <ul style="list-style-type: none"> 1) FLOW METER SIGNAL + 2) FLOW METER SIGNAL - 3) 12-28 VDC LOOP IN + 4) 4-20 MA LOOP OUT - 5) NOT USED 6) NOT USED <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">6</td> <td style="width: 20px; height: 20px; text-align: center;">5</td> <td style="width: 20px; height: 20px; text-align: center;">4</td> <td style="width: 20px; height: 20px; text-align: center;">3</td> <td style="width: 20px; height: 20px; text-align: center;">2</td> <td style="width: 20px; height: 20px; text-align: center;">1</td> </tr> </table>	6	5	4	3	2	1
6	5	4	3	2	1		
<p style="text-align: center;">142mm</p>	<p>FC7-SP7 Integrated pick-up & 2 wire 4-20 mA Output</p> <p>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.</p> <p>Specification</p> <p>Housing: 304 Stainless Steel with 5/8" UNF - 18 thread</p> <p>Connector: M12x1 4 pin male</p> <p>Temperature: -20 to +65°C</p> <p>Power Supply: 12-28 Vdc</p> <p>Output: 4-20 mA loop powered (2 wire)</p> <p>Update Time: 32 Hz</p> <p>Max Load: 250 Ohms at 12 Vdc, 1kOhm at 28 Vdc</p> <p>Pin Assignment:</p> <ul style="list-style-type: none"> Pin 1 : Loop + Pin 2 : Comms Pin 3 : Comms ground Pin 4 : Loop - 						