FLOWMETER PREAMPLIFIERS

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
Frequecy range:	0 - 3kHz	
Power supply:	4 to 40 V dc	
Temperature:	-20 to 70 ^{0}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	
Frequecy range:	10 - 3kHz	
Power supply:	7 to 30 V dc	
Temperature:	-20 to 70 ^{0}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^{0}C≤Ta<40^{0}C/+70^{0}C) Ui=22V
ATEX II 1 G Ex ia IIB T5/T4 Ga (-20^{0}C≤Ta<40^{0}C/+70^{0}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

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

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

Specification

Approval:	ATEX II 1 G Ex ia IIC T5 / T4 Ga
Inductance:	450 mH
Resistance:	1200 Ω
Thread connection:	5/8" UNF
Output:	mV sinewave
Connection:	2 core plus screen flying lead
Temperature range	-20^{0}C to +100^{0}C

ATEX II 1G Ex ia IIC T5/T4 Ga (-20^{0}C≤Ta≤80^{0}C/+100^{0}C)

Contact our flow measurement specialists for advice on your application

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ATEX option available

APOLLO

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UKAS MANAGEMENT SYSTEMS