

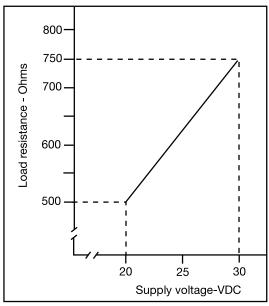
COX PA111, PA112, PA115 Pre-Amplifiers

DESCRIPTION

Pre-amplifiers are used for long distance signal transmission and noise interference elimination. Output signal frequency is proportional to the process flow rate. Meter or remote mounted units are available. PA111 is intrinsically safe; PA112 and PA115 are explosion proof. All three models are available with either Factory Mutual or CSA approvals.

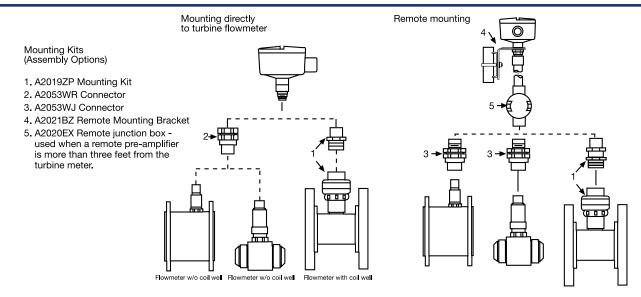


EXTERNAL	SENSE	RESISTOR	VALVE
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Specifications				
Input Signal	From pickup coil of turbine flowmeter. 20 mV to 10 V, 10 to 2000 pps			
Output Signal	Square wave pulse, 10 V p-p pulses, three wire system (PA115: 20 V p-p pulses two wire system power supplied over signal wires)			
Input-output Relationship	The output pulse frequency is the same as the input frequency from the turbine meter			
Sense Resistor (PA115 only)	An external, user supplied sense resistor is required for operation. (Refer to graph)			
Operating Temperature	-40° to +185°F (-40° to +85°C)			
Supply Voltage	15 – 30 Vdc (PA 115: 20-30 Vdc)			
Supply Current	4.5 mA (PA115: 40 mA peak, 25 mA average)			
Housing	NEMA 4 cast aluminum, explosion proof housing meets IP65			
Mass	1 kg (2.2 lbs) approx.			

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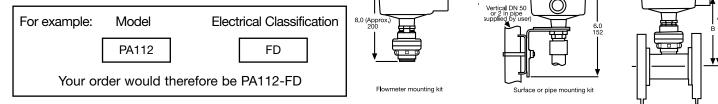
Dimensions

Values of dimensions A and B for the following flowmeter line size codes											
	1/2	3/4	1	1-1/2	2	3	4	6	8	10	12
Dimension A	<u>8.8</u>	<u>8.9</u>	<u>8.9</u>	<u>9.1</u>	9.7	<u>9.9</u>	<u>10.4</u>	<u>11.5</u>	<u>12.5</u>	<u>13.6</u>	<u>14.6</u>
	224	226	226	231	246	252	264	292	318	345	371
Dimension B	<u>7.1</u>	7.2	7.2	7.4	<u>8.0</u>	<u>8.2</u>	<u>8.7</u>	<u>9.8</u>	10.8	<u>11.9</u>	<u>12.9</u>
	180	183	183	188	203	208	221	249	274	302	328

Note: Inches are the top dimension, millimeters the bottom $\frac{(in)}{(mm)}$

ORDERING OPTIONS

For easy ordering, select the appropriate item number from the information below:



1.0

Electrical Classification

- Model PA111 (Intrinsically Safe)
- **FB** Factory Mutual Research approved as intrinsically safe for Classes I and II, Division 1, Groups, A, B, C, D, E, F and G. Enclosure NEMA 4.
- **CD** CSA approved as intrinsically safe for Class 1, Groups A, B, C an\d D; Class II, Groups E, F and G; Class III. Enclosure NEMA 4.

Models PA112 & PA115 (Explosion Proof)

- FD Factory Mutual Research approved for hazardous locations. Explosion-proof for Class I, Division 1, Groups B, C and D. Dust ignition-proof for Class II, Division 1, Groups E, F and G. Non-incendive resistive for Class 1, Division 2, Groups A, B, C and D. Enclosure NEMA 4. (Certification CS-E/FD-A).
- **CD** CSA approved for hazardous locations. Explosion-proof for Class I, Division 1, Groups B, C and D; Class II, Division 1, Groups E, F and G; Class III; Class I, Division 2, Groups A, B, C and D. Enclosure NEMA 4. (Certification CS-E/CD-A).

For more information, contact COX Instruments or your local COX Instruments representative.



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