

786 Pitts Chapel Road Elizabeth City, NC 27909 (252) 331-2080 phone (252) 331-1666 fax www.motionsensors.com

EU Declaration of Conformity – PMX/PRX Series Preamplifiers

Manufacturer: Motion Sensors, Inc., 786 Pitts Chapel Road, Elizabeth City, NC 27909

Equipment: Intrinsically Safe preamplifiers

Designation/Model: PMX-xxx-y and PRX-xxx-y

NOTE: "xxx" or "xxxx" in Model number may be any combination of numbers and characters representing specific options. "y" in Model Number will be either a -1, -2, -3, -4 or -5 indicating the pulse output type and Hazardous Location rating.

Marking:

MOTION SENSORS INC ELIZABETH CITY, NC 27909 YYY-XXX SERIAL #: YEAR OF CONSTRUCTION: Ex II 1 G Ex ia IIC T4 (Tamb: -40° C to 51° C) Ex ia IIC T2 (Tamb: -40° C to 125° C) Ex ia IIA T4 (Tamb: -40° C to 51° C) Ex ia IIA T4 (Tamb: -40° C to 51° C) Ex ia IIA T2 (Tamb: -40° C to 51° C) Ex ia IIA T2 (Tamb: -40° C to 125° C) LCIE 03 ATEX 6286 X IECEx LCIE 14.0024 X Ui≤...V, Ii≤...mA, Pi≤...W, Ci≤...uF, Li≤...mH* Uo≤...V, Io≤...mA, Po≤...W, Co≤...uF, Lo≤...mH*

*See specific part drawing for entity parameter values

This declaration of conformity is issued under the sole responsibility of the manufacturer. We hereby declare that the product, which is subject of this declaration, is in conformity with the following standards:

ATEX	ATEX Directive 2014/34/EU: Equipment and protective systems intended for use in potentially explosive atmospheres.	EU-Type Examination Certificate: LCIE 03 ATEX 6286 X
	Applicable Standards: EN 60079-0: 2012+A11-2013; EN 60079-11:2012	
CSA w/NRTL/C	Applicable CSA Requirements: CSA Std. C22.2 No. 142-M1987, CAN/CSA-E79-11-95, UL Std No. 916, UL Std No. 913	CSA-Type Examination Certificate: 1102298 LR105990-3
IECEx	IEC Certification for Explosive Atmospheres. <i>Applicable Standards:</i> <i>IEC 60079-0: 2011; IEC 60079-11: 2011</i>	IECEx Certificate of Conformity: IECEx LCIE 14.0024 X
2004/108/EC: Electromagnetic Compatibility	Applicable Standards: EN 61000-6-3 (2007), EN 61000-6-2 (2005)	

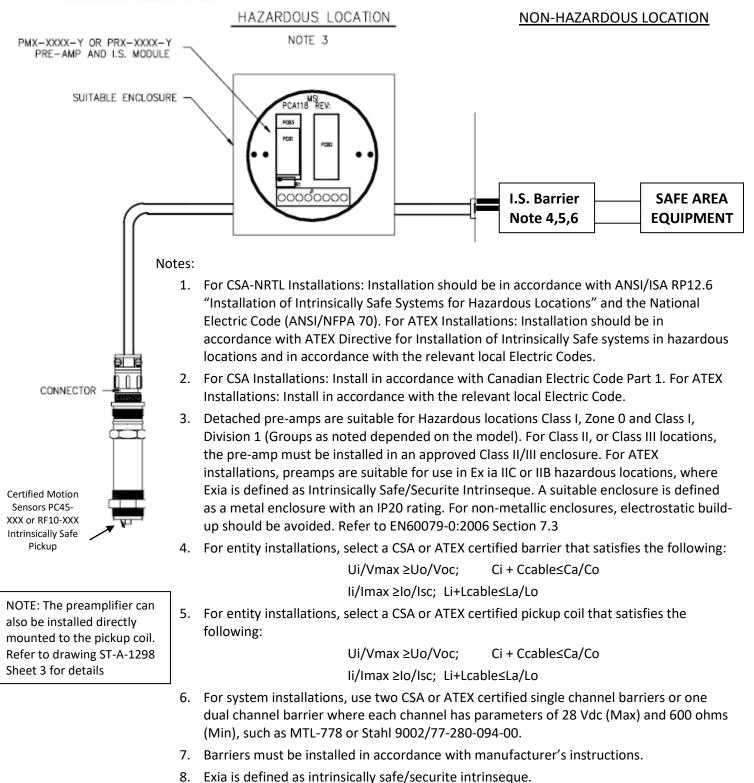
Marcy Bergm President Motion Sensors, Inc.

SIGNED: 4/20/16

EU-Type Examination Certificate & IECEx Certificate issued by: Laboratoire Central Des Industries Electriques Avenue du General-Leclerc 33 F-92266 Fontenay-aux-Roses (Notified Body Number: 0081)

CSA-Type Examination Certification issued by: Canadian Standards Association Toronto, ON Canada





The preamplifiers are intrinsically safe electrical equipment and can be used in potentially explosive atmospheres. The apparatus must be installed with certified intrinsically safe equipment and the combination must be compatible with intrinsically safe rules and the electrical parameters in the below table.



CSA Entity Parameters

Class/Group (CSA)	Part Numbers	Electrical Parameters
Class 1, Zone 0	PMX-XXXX-1,	Parameters to I.S. Barrier:
Group IIC/Class 1,	PMX-XXXX-2,	Ui/Vmax=30Vdc; li/Imax=200mA; Ci/Ci=0uF; Li/Li = 0.5mH
DIV 1, Group A,B,C,D	PRX-XXXX-1,	Parameters to Pickup Coil:
	PRX-XXXX-2	Uo/Voc=5.9Vdc; Io/Isc=64mA; Co/Ca=1.0uF; Lo/La=3.5mH
Class 1, Zone 0	PMX-XXXX-3,	Parameters to I.S. Barrier:
Group IIA/Class 1,	PMX-XXXX-4,	Ui/Vmax=30Vdc; li/Imax=190mA; Ci/Ci=0uF; Li/Li = 0.5mH
DIV 1, Group D	PRX-XXXX-3,	Parameters to Pickup Coil:
	PRX-XXXX-4,	Uo/Voc=10.5Vdc; lo/lsc=190mA; Co/Ca=4.0uF;
	PRX-XXXX-5,	Lo/La=1.5mH
	PMX-XXXX-5	

ATEX Entity Parameters

NOTE: Electrical specification U, I, P of the materials which could be associated to the pickup will not exceed any of the following values

Part Numbers	Group	Electrical Parameters
PMX-XXXX-1,	IIC	Ui = 30V; li = 200mA; Pi = 0.75W; Ci = 0; Li = 0.5mH
PMX-XXXX-2,		Uo=5.9V; lo = 64mA; Co = 1uF; Lo = 3.5 mH
PRX-XXXX-1,		
PRX-XXXX-2		
PMX-XXXX-3,	IIA	Ui = 30V; li = 190mA; Pi = 2.55W; Ci = 0; Li = 0.5mH
PMX-XXXX-4,		Uo=10.5V; lo = 190mA; Co = 4uF; Lo = 1.5 mH
PRX-XXXX-3,		
PRX-XXXX-4,		
PRX-XXXX-5,		
PMX-XXXX-5		



Maximum Ambient Temperature:

The maximum ambient temperature of the preamplifiers is in accordance with the following temperature classes. Note: Refer to individual product specification sheet for temperature capabilities of specific model being used.

ATEX Certified Group IIC and IIA:

T2	T4
-40°C to +125°C	-40°C to +51°C

CSA Certified Group IIC:

CSA Certified Group IIA:

T2	T4
-40°C to +125°C	-40°C to +51°C

T2	T4
-40°C to +100°	C -40°C to +51°C

Marking:

The amplified series of pickups and preamplifiers shall be marked with either CSA or ATEX identification, or a combination label, as applicable and shall be identified by the part number, date code (AA BB), and Lot Identification number (YYYYYY).

WARNING: Do not separate when energized.