

The installation drawing numbers in the table below are referenced in the attached CSA certificate. Some of these drawing numbers pertain to products or configurations not supplied by Metrix at this time, but which may become available in the future. As such, only the drawings noted in bold/gray below have been provided on our website or otherwise made accessible to customers.

Dwg #	Pertains to Metrix model #	Description	Configuration Option	Product Available?	Drawing Available?
8066	N/A	Accelerometer	Removable cable, 2-pin MIL 5015C connector	No	No
8067	N/A	Accelerometer	IP68 integral cable	No	No
8068	N/A	Accelerometer	Removable cable, 3-pin MIL connector	No	No
8082	SV6300	Piezo-Velocity Sensor	Removable cable, 2-pin MIL 5015C connector	Yes	Yes
8085	SV6300	Piezo-Velocity Sensor	IP68 integral cable	No	No
8088	SV6300	Piezo-Velocity Sensor	Removable cable, 3-pin MIL connector	No	No
8123	SA6200	API 670 Compliant Accelerometer	Removable cable, 2-pin MIL 5015C connector	Yes	Yes
8124	SA6200UW	Underwater Accelerometer	IP68 integral cable	Yes	Yes
8802	SA6200	API 670 Compliant Accelerometer	Removable cable, 3-pin MIL connector	No	No
8945	SA6250	High-Frequency Accelerometer	100mV/g output, removable cable, 2-pin MIL 5015C connector	Yes	Yes
9228	SA6250	High-Frequency Accelerometer	10mV/g output, removable cable, 2-pin MIL 5015C connector	No	No

METRIX DOC NO: 1227813
REV: C



Certificate of Compliance

Certificate: 1111767

Master Contract: 206470

Project: 70215132

Date Issued: March 5, 2019

Issued to: Metrix Instrument Co.
8824 Fallbrook Drive
Houston, TX 77064
USA

Attention: Mr. Lance Truong

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Jeannette Keller

Issued by:

Jeannette Keller

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -
Certified To U.S. Standards

Class I, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G:

Ex ia IIC T4:

AEx ia IIC T4:

- Models SA6250-1X1 and SA6250-5X1 Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 1.2 nF$; when installed per installation dwgs 8066, 8068, 9228, 8945 and 8067; Temp Code T4 @ Max Ambient 121°C.
- Models SV6300-1X1 and SV6300-5X1, Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 62 nF$; when installed per installation dwgs 8082, 8088 and 8085; Temp Code T4 @ Max Ambient 121°C.

METRIX DOC NO: 1227813
REV: C



Certificate: 1111767
Project: 70215132

Master Contract: 206470
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Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

APPLICABLE REQUIREMENTS

- | | |
|------------------------------|---|
| CAN/CSA-C22.2 No. 0-M91 | - General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 142-M1987 | - Process Control Equipment |
| CAN/CSA-C22.2 No. 157-92 | - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations |
| UL 913 (7 th Ed.) | - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations |
| UL 916 (3 rd Ed.) | - Energy Management Equipment |
| CAN/CSA-C22.2 No. 60079-0:07 | - Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements |
| CAN/CSA-E60079-11:02 | - Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i" |
| ANSI/UL 60079-0:05 | - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| ANSI/UL 60079-11:07 | - Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i" |

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified To U.S. Standards

Class I, Div. 2, Groups A, B, C, D:

Ex nL IIC T4:

AEx nA IIC T4:

- Models SA6250-1X1 and SA6250-5X1 Vibration Sensors, input rated 28V dc max, 20mA; nonincendive with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 1.2 nF$; when installed per Installation Dwgs 8066, 8068, 9228, 8945 and 8067; Temp Code T4 @ Max Ambient 121°C.
- Models SV6300-1X1 and SV6300-5X1 Vibration Sensors, input rated 28V dc max, 20mA; nonincendive with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 62 nF$; when installed per Installation Dwgs 8082, 8088 and 8085; Temp Code T4 @ Max Ambient 121°C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.



Certificate: 1111767
Project: 70215132

Master Contract: 206470
Date Issued: March 5, 2019

3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

APPLICABLE REQUIREMENTS

- | | | |
|-------------------------------|---|---|
| CAN/CSA-C22.2 No. 0-M91 | - | General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 142-M1987 | - | Process Control Equipment |
| C22.2 No. 213-M1987 | - | Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations |
| UL 916 (3 rd Ed.) | - | Energy Management Equipment |
| UL 1604 (3 rd Ed.) | - | Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations |
| ANSI/ISA 12.12.01-2007 | - | Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations |
| CAN/CSA-E60079-15:02 | - | Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n" |
| ANSI/UL 60079-15:02 | - | Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n" |

MARKINGS

Markings are etched directly into the Sensor enclosure body. The following marking details appear:

I.S. models

- CSA Monogram with C/US Indicator
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (i.e. Class I, Div. 1, Groups A, B, C and D) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 0, Group IIC, T4)
- Certificate # reference
- Reference to Installation Instructions

Div. 2 Non-Incendive models

- CSA Monogram with C/US indicator.
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (i.e. Class I, Div. 2, Groups A, B, C and D) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 2, Group IIC, T4)
- Certificate # reference
- Reference to Installation Instructions



Certificate: 1111767
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PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified To U.S. Standards

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div 1:
Ex ia IIC T4:
AEx ia IIC T4:

- Models SA6200-1X1, SA6200-5X1, SA6200UW-1X1, and SA6200UW-5X1 Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$; $C_i = 1.2 nF$, $L_i = 0$ (Models SA6200-1X1 and SA6200-5X1); $C_i = 26.2nF$, $L_i = 151\mu H$ (Models SA6200UW-1X1 and SA6200UW-5X1); when installed per installation Dwgs. 8123, 8802 and 8124; Temp Code T4 @ Max Ambient 121°C.

Class I, Div. 1, Groups A, B, C and D;
Class II, Div. 1, Groups E, F and G; Class III;
Ex ia IIC T4;
AEx ia IIC T4

- Models SA6300-551, Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 28V$, $I_i (I_{max}) = 93mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 6.5nF$ (Connector Series); $L_i = 305\mu H$, $C_i = 67.5nF$ (Integrated Cable Series); when installed per installation drawing 65093 Page 1; Temp Code T4 @ Max Ambient 121°C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	-	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987	-	Process Control Equipment
CAN/CSA-C22.2 No. 157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
UL 913 (7 th Ed.)	-	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
UL 916 (3 rd Ed.)	-	Energy Management Equipment
CAN/CSA-C22.2 No. 60079-0:07	-	Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
CAN/CSA-E60079-11:02	-	Electrical apparatus for explosive gas atmospheres -

METRIX DOC NO: 1227813
REV: C



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Date Issued: March 5, 2019

- ANSI/UL 60079-0:05 - Part 11: Intrinsic Safety "i"
Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
- ANSI/UL 60079-11:07 - Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified To U.S. Standards

Class I, Div. 2, Groups A, B, C, D:

Ex nL IIC T4:

AEx nA IIC T4:

- Models SA6200-1X1, SA6200-5X1, SA6200UW-1X1, and SA6200UW-5X1 Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$; $C_i = 1.2 nF$, $L_i = 0$ (Models SA6200-1X1 and SA6200-5X1); $C_i = 26.2nF$, $L_i = 151\mu H$ (Models SA6200UW-1X1 and SA6200UW-5X1); when installed per installation Dwgs. 8123, 8802 and 8124; Temp Code T4 @ Max Ambient 121 °C.
- Models SA6300-551, Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 28V$, $I_i (I_{max}) = 93mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 6.5nF$ (Connector Series); $L_i = 305\mu H$, $C_i = 67.5nF$ (Integrated Cable Series); when installed per installation drawing 65093 Page 3; Temp Code T4 @ Max Ambient 121°C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No. 0-M91 - General Requirements – Canadian Electrical Code, Part II
- C22.2 No. 142-M1987 - Process Control Equipment
- C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- UL 916 (3rd Ed.) - Energy Management Equipment
- UL 1604 (3rd Ed.) - Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations

METRIX DOC NO: 1227813
REV: C



Certificate: 1111767
Project: 70215132

Master Contract: 206470
Date Issued: March 5, 2019

- | | | |
|------------------------|---|---|
| ANSI/ISA 12.12.01-2007 | - | Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations |
| CAN/CSA-E60079-15:02 | - | Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n" |
| ANSI/UL 60079-15:02 | - | Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n" |

MARKINGS

Markings are etched directly into the Sensor enclosure body. The following marking details appear:

I.S. models

- CSA Monogram with C US Indicator
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (ie the Symbol Ex ia IIC T4) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 0, Group IIC, T4)
- Ambient Temperature
- Certificate # reference
- Reference to Installation Instructions

Div. 2 Non-Incendive models

- CSA Monogram with C US indicator.
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (ie Ex nL IIC T4, AEx nA IIC T4, Class I, Div. 2, Groups A, B, C and D) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 2, Group IIC, T4)
- Ambient Temperature
- Certificate # reference



Supplement to Certificate of Compliance

Certificate: 1111767 (70215132)

Master Contract: 206470

The products listed below, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1111767	July 24, 2000	Original Multiple Listing Certification; Industrial Monitoring Instrumentation / Metrix Instrument Co., Models CS623C01, CSM623C01 / SA6250-101, SA6250-111 (Alt. File No. 206470, Form B)
2672538	October 30, 2013	Update Multiple Listing to remove models " SA6250-101" and "SA6250-111", and to include IMI Models CS623C01, CSVO622A01, CS628F01, CS628F11 / Metrix Instruments Models SA6250-1X1, SA6250-5X1, SV6300-1X1, SV6300-5X1, SA6200-1X1, SA6200-5X1, SA6200UW-1X1, and SA6200UW-5X1.
70215132	March 5, 2019	Evaluation to Update Multiple Listing Report 1111767 with Model SA6300-551 comparison with Report 1175335, Project 70043520 [from having a "CS" prefix to an "EX" prefix]

Multiple Listing Project No	Listee Models	Submittor Models	Submittor Project No
1111767	SA6250-101	CS623C01	1175335
1111767	SA6250-111	CSM623C01	1175335
2672538	SA6250-1X1 SA6250-5X1	CS623C01	1175335 (2510945)
2672538	SV6300-1X1 SV6300-5X1	CSVO622A01	1175335 (2510945)
2672538	SA6200-1X1 SA6200-5X1	CS628F01	2009167
2672538	SA6200UW-1X1 SA6200UW-5X1	CS628F11	2009167
70215132	SA6300-551	EX622M51A	1175335 (70043520)
70215132	SA6250-111	EXM623C01	1175335 (70043520)
70215132	SA6250-1X1 SA6250-5X1	EX623C01	1175335 (70043520)
70215132	SV6300-1X1 SV6300-5X1	EXVO622B01	1175335 (70043520)
70215132	SA6200-1X1 SA6200-5X1	EX628F01	1175335 (70043520)
70215132	SA6200UW-1X1 SA6200UW-5X1	EX628F11	1175335 (70043520)

METRIX DOC NO: 1227813
REV: C



The following pages are the prior revisions of this certificate.



Certificate of Compliance

Certificate: 1111767

Master Contract: 206470

Project: 2672538

Date Issued: October 30, 2013

Issued to: Metrix Instrument Co.
8824 Fallbrook Drive
Houston, TX 77064
USA

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Jocelyn Jens
Technical Assistant

Authorized by: 
Lindsay Clark
Operations Manager

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -
Certified To U.S. Standards

Class I, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G:

Ex ia IIC T4:

AEx ia IIC T4:

- Models SA6250-1X1 and SA6250-5X1 Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 1.2 nF$; when installed per installation dwgs 8066, 8068, 9228, 8945 and 8067; Temp Code T4 @ Max Ambient 121°C.
- Models SV6300-1X1 and SV6300-5X1, Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 62 nF$; when installed per installation dwgs 8082, 8088 and 8085; Temp Code T4 @ Max Ambient 121°C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

METRIX DOC NO: 1227813
REV: B



Certificate: 1111767

Master Contract: 206470

Project: 2672538

Date Issued: October 30, 2013

APPLICABLE REQUIREMENTS

- | | | |
|------------------------------|---|---|
| CAN/CSA-C22.2 No. 0-M91 | - | General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 142-M1987 | - | Process Control Equipment |
| CAN/CSA-C22.2 No. 157-92 | - | Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations |
| UL 913 (7 th Ed.) | - | Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations |
| UL 916 (3 rd Ed.) | - | Energy Management Equipment |
| CAN/CSA-C22.2 No. 60079-0:07 | - | Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements |
| CAN/CSA-E60079-11:02 | - | Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i" |
| ANSI/UL 60079-0:05 | - | Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| ANSI/UL 60079-11:07 | - | Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i" |

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified To U.S. Standards

Class I, Div. 2, Groups A, B, C, D:

Ex nL IIC T4:

AEx nA IIC T4:

- Models SA6250-1X1 and SA6250-5X1 Vibration Sensors, input rated 28V dc max, 20mA; nonincendive with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 1.2 nF$; when installed per Installation Dwgs 8066, 8068, 9228, 8945 and 8067; Temp Code T4 @ Max Ambient 121°C.
- Models SV6300-1X1 and SV6300-5X1 Vibration Sensors, input rated 28V dc max, 20mA; nonincendive with entity parameters of: $U_i (V_{max}) = 30V$, $I_i (I_{max}) = 200mA$, $P_i (P_{max}) = 1 W$, $L_i = 0$, $C_i = 62 nF$; when installed per Installation Dwgs 8082, 8088 and 8085; Temp Code T4 @ Max Ambient 121°C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

METRIX DOC NO: 1227813
REV: B



Certificate: 1111767
Project: 2672538

Master Contract: 206470
Date Issued: October 30, 2013

APPLICABLE REQUIREMENTS

- | | | |
|-------------------------------|---|---|
| CAN/CSA-C22.2 No. 0-M91 | - | General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 142-M1987 | - | Process Control Equipment |
| C22.2 No. 213-M1987 | - | Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations |
| UL 916 (3 rd Ed.) | - | Energy Management Equipment |
| UL 1604 (3 rd Ed.) | - | Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations |
| ANSI/ISA 12.12.01-2007 | - | Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations |
| CAN/CSA-E60079-15:02 | - | Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n" |
| ANSI/UL 60079-15:02 | - | Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n" |

MARKINGS

Markings are etched directly into the Sensor enclosure body. The following marking details appear:

I.S. models

- CSA Monogram with C/US Indicator
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (i.e. Class I, Div. 1, Groups A, B, C and D) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 0, Group IIC, T4)
- Certificate # reference
- Reference to Installation Instructions

Div. 2 Non-Incendive models

- CSA Monogram with C/US indicator.
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (i.e. Class I, Div. 2, Groups A, B, C and D) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 2, Group IIC, T4)
- Certificate # reference
- Reference to Installation Instructions

METRIX DOC NO: 1227813
REV: B



Certificate: 1111767
Project: 2672538

Master Contract: 206470
Date Issued: October 30, 2013

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified To U.S. Standards

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div 1:

Ex ia IIC T4:

AEx ia IIC T4:

- Models SA6200-1X1, SA6200-5X1, SA6200UW-1X1, and SA6200UW-5X1 Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of: U_i (V_{max}) = 30V, I_i (I_{max}) = 200mA, P_i (P_{max}) = 1 W; C_i = 1.2 nF, L_i = 0 (Models SA6200-1X1 and SA6200-5X1); C_i = 26.2nF, L_i = 151 μ H (Models SA6200UW-1X1 and SA6200UW-5X1); when installed per installation Dwgs. 8123, 8802 and 8124; Temp Code T4 @ Max Ambient 121°C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	- General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987	- Process Control Equipment
CAN/CSA-C22.2 No. 157-92	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
UL 913 (7 th Ed.)	- Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
UL 916 (3 rd Ed.)	- Energy Management Equipment
CAN/CSA-C22.2 No. 60079-0:07	- Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
CAN/CSA-E60079-11:02	- Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i"
ANSI/UL 60079-0:05	- Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-11:07	- Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"

METRIX DOC NO: 1227813
REV: B



Certificate: 1111767
Project: 2672538

Master Contract: 206470
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PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified To U.S. Standards

Ex nL IIC T4:

AEx nA IIC T4:

Class I, Div. 2, Groups A, B, C, D:

- Models SA6200-1X1, SA6200-5X1, SA6200UW-1X1, and SA6200UW-5X1 Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of: U_i (V_{max}) = 30V, I_i (I_{max}) = 200mA, P_i (P_{max}) = 1 W; C_i = 1.2 nF, L_i = 0 (Models SA6200-1X1 and SA6200-5X1); C_i = 26.2nF, L_i = 151 μ H (Models SA6200UW-1X1 and SA6200UW-5X1); when installed per installation Dwgs. 8123, 8802 and 8124; Temp Code T4 @ Max Ambient 121 °C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Articles 501 and 505 of the NEC.
3. "X" in the Model name represents a variable number which indicates the mounting stud provided with the sensor.

APPLICABLE REQUIREMENTS

- | | |
|-------------------------------|---|
| CAN/CSA-C22.2 No. 0-M91 | - General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 142-M1987 | - Process Control Equipment |
| C22.2 No. 213-M1987 | - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations |
| UL 916 (3 rd Ed.) | - Energy Management Equipment |
| UL 1604 (3 rd Ed.) | - Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations |
| ANSI/ISA 12.12.01-2007 | - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations |
| CAN/CSA-E60079-15:02 | - Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n" |
| ANSI/UL 60079-15:02 | - Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n" |

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MARKINGS

Markings are etched directly into the Sensor enclosure body. The following marking details appear:

I.S. models

- CSA Monogram with C US Indicator
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (ie the Symbol Ex ia IIC T4) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 0, Group IIC, T4)
- Ambient Temperature
- Certificate # reference
- Reference to Installation Instructions

Div. 2 Non-Incendive models

- CSA Monogram with C US indicator.
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation (ie Ex nL IIC T4, AEx nA IIC T4, Class I, Div. 2, Groups A, B, C and D) (In addition to these required markings, the following optional markings may also appear: Class I, Zone 2, Group IIC, T4)
- Ambient Temperature
- Certificate # reference

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