Certificate of Compliance

Certificate:	1060648	**Master Contract:**	178583
Project:	80189845	**Date Issued:**	02/07/2024

Issued to: **Dataforth Corporation**
3331 E. Hemisphere Loop
Tucson, Arizona 85706
United States

Attention: Mizan Rahman

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: *Christopher Agada*
Christopher Agada

PRODUCTS

C225802 PROCESS CONTROL EQUIPMENT - For Hazardous Locations
C225882 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Signal conditioning and isolating modules

Model(s)	Voltage (VDC)	Current (mA max)	Ambient Temp. Range (°C)	Temperature Class
Series SCM5Bab-cd	5	280	-40 to 85	T4A

a = Signal Input; 30,31,32, 33, 34,35,36,37,38,39,40,41,42,43,45, 45-xx, 45-2x, 47, 48, 49 or 392
b = Thermocouple Type; J, K, T, E, R, S, B, C and N
c = Input/Output Range; 1,02,03,04,05,06,07,08,09,10,11,12,13,14,15,31,32,33,34,35,36,37,0111,0212, 0313 or 0414
d = I/O Range Extension; B, C, D, E or blank

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Model(s)	Voltage (VDC)	Current (mA max)	Ambient Temp. Range (°C)	Temperature Class
Series A5Bab-c	5	200	-40 to 85	T4A

a = Signal Input; 30,31,32,34,36,37,38,39,40,41,42,45,47 or 49
b = Thermocouple Type; J, K, T, E, R, S, B, C and N
c = Input/Output Range; 01,02,03,04,05,06,07,08,09,10 or 11

Model(s)	Voltage (VDC)	Current (mA max)	Ambient Temp. Range (°C)	Temperature Class
Series 1781-5Bab-c	5	200	-40 to 85	T4A

a = Signal Input; 30,31,32,34,35,36,37,38,39,40,41,42,43,45,47 or 49
b = Thermocouple Type; J, K, T, E, R, S, B, C and N
c = Input/Output Range; 01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,31,32,33,34,35,36 or 37

Attenuator modules

Model(s)	Ambient Temp. Range (°C)	Temperature Class
SCMVAS- MXXX (passive resistive)	-40 to 85	T4A

XXX = Input Range: 100, 200, 300, 400, 500, 600, 650, xxx or MPT

Backplane

Model(s)	Voltage (VDC)	Current (A max)
SCMPBa-1, SCMPBa-2, SCMPBa-3	5	4.5

a = Channel Capability; 01, 02, 03, 04, 05, 06 or 07

Model(s)
SCMVAS-PB8, SCMVAS-PB8D, SCMVAS-PB16, SCMVAS-PB16D

Accessories

Model(s)
SCMXR1, SCMXCJC

APPLICABLE REQUIREMENTS

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CSA C22.2 No. 142-M1987 (Third Edition)(R2014) - Process Control Equipment - Third Edition; General Instruction No. 1: May 1987; No. 2: June 1987; No. 3: June 1988; No. 4: February 1989; No. 5: September 1990

CSA C22.2 No. 213-17 (Third Edition) - Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations

FM 3611:2004 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III, Divisions 1 and 2, Hazardous (Classified) Locations

FM 3810:2005 - Electrical Equipment for Measurement, Control and Laboratory Use

FM 3600:1998 - Electrical Equipment for use in Hazardous (Classified) Locations – General Requirements

Markings

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Nameplate adhesive label material approval information:

The required markings are on CSA Accepted self-adhesive labels.

- CSA Monogram with C/US indicator
- Company Name (and file number for Private Label models)
- Model number (As per Product Section Above)
- Serial number
- Electrical rating (As per Product Section Above)
- Hazardous Location designation (As per Product Section Above)
- Temperature Code Rating (As per Product Section Above)
- Ambient temperature range (As per Product Section Above)
- Caution re Substitution of Components (applicable to Backplanes only)
- Caution re Do not disconnect equipment unless power has been switched off (applicable to Backplanes only)
- Caution re Do not replace equipment unless power has been switched off (applicable to Backplanes only)

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Notes:

Products certified under Class C225802 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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Supplement to Certificate of Compliance

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

Product Certification History

Project	Date	Description
80189845	February 07, 2024	Update to Report 1060648 to change potting material from Dolphon CB-1109/RE2018 to Epic Resin RM2018 in signal conditioning and isolating modules SCM5B***-** / A5B**-* / 1781-5B**-*. Standard CSA Std C22.2 No. 213-M1987 is upgraded to CSA C22.2 No. 213-2017 as per CSA Notice Hazardous Locations Products No. 28. Additionally, the revision of certain drawings in the Descriptive Document List are updated to reflect the latest version of these drawings.
80115731	June 23, 2022	FIR follow-up, update to report 1060648, (FC# 178584) FIR dated Aug. 19, 2020.
70181467	May 02, 2018	CSA update to report 1060648 to cover updating drawings to latest revision and minor alternate construction
70030438	July 20, 2015	Update to report 1060648 to update the descriptive documents.
2542082	August 02, 2012	CSA C/US certification of accelerometer input module model SCM5B48 and alternate construction of other modules to cover use of high temperature terminal blocks.
2450752	August 22, 2011	Update of report 1060648 to include updated drawings reflecting minor changes.
2339370	October 28, 2010	Update of report 1060648 (LR 79427-1) to cover evaluation to CSA US and updating report with latest drawings.
2036120	June 04, 2008	Update to cover minor drawings revisions to include UL 94-0 marking on the pcbs.
1960372	October 19, 2007	Update to cover minor alter construction and report update
1910731	August 27, 2007	Update to correct factory tests
1824184	December 12, 2006	Drawing updates to cover RoHS compliance

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1791947	July 05, 2006	Alternate Construction for RoHS compliance for Series SCM5B modules and accessories
1708285	September 15, 2005	Revisions Affecting Dwgs. PCB/AD/CD/PL1212, 1250, 1251, 1252, 1253, 1254, 1255, 1262; PL1163; AD/PL1216; LA1091-001; PCB/AD/PL1249
1640885	April 08, 2005	Revisions of Dwgs. PCB1131, CD1131, AD1131, PL1131
1602783	November 30, 2004	Update to include minor modifications
1544084	June 24, 2004	Update to Include Minor Modifications - Legacy File 79427
1397051	February 25, 2004	Update to include major alterations
1327306	July 15, 2002	Update to include minor alterations
1260321	April 03, 2002	Update to include alternative smt pcbs and revised drawings.
1184461	June 07, 2001	Update to include new models SCM5B34-xxD, SCM5B35-xxD, SCM5B36-xxD and SCM5B39-07, alternative construction, and revised drawings.
1060648	April 24, 2000	Update to include new model and SCMPB07, alternative construction, and revised drawings.
LR 79427	August 10, 1998	Update to include private label models, new models SCM5B43-xx and SCMPBx-x, and alternative construction.
LR 79427 - 2	January 03, 1996	Update to include additional SCM5B modules and to cover evaluation for Factory Mutual
LR 79427 - 1	November 04, 1993	Original Certification

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