

# Certificate of Compliance

**Certificate:** 1205926

**Master Contract:** 155891 (LR 45322)

**Project:** 1262175


**Date Issued:** November 26, 2001

**Issued to:** Dynalco Controls  
3690 N.W. 53 St.  
Fort Lauderdale, FL 33309 - 2478  
USA  
**Attention:** Mr. Dale Leideker

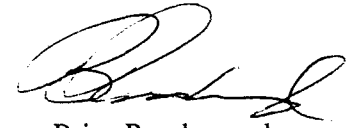
*The products listed below are eligible to bear the CSA Mark shown,  
with adjacent indicator "C" and "US".*



**Issued by:**

  
Dorin Stochitoiu

**Authorized by:**

  
Brian Rossborough  
Operations Manager

## PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

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

SC-2000 Series Pyrometers consisting of:

- Controller models SC-2124/2124M/2012, input rated 9-38V DC, 450 mA maximum, 4 W maximum. Maximum ambient temperature 80°C. Temperature Code Rating T4A (120 degrees Celsius);
- Remote Display model IDM 200 input rated 9-38V DC, 200 mA maximum, 6W maximum. Maximum ambient temperature 85°C. Temperature Code Rating T3C (120 degrees Celsius);
- Signal Amplifier model SC-RTD input rated 9-38V DC, 70 mA maximum, 1 W maximum. Maximum ambient temperature 80°C. Temperature Code Rating T4A (120 degrees Celsius);
- Temperature sensor model ETS202, Converter model 485LDRC, Cable Assemblies models: SC-CABLE25MM, SC-

The "C" and "US" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S. This includes products eligible to bear the NRTL indicator. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

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CABLE 25MF and SC-CABLE15MF

**NOTE:** The system is certified as installed per drawings A80011900 and A8001190. Its components shall be installed in suitable enclosures and the final combination is subject to acceptance by CSA or local inspection having jurisdiction.

**APPLICABLE REQUIREMENTS**

- CSA Std C22.2 No. 142-M1987 - Process Control Equipment
- CSA Std C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- UL Std No. 916 - Energy Management Equipment
- UL Std No. 1604 - Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations

**MARKINGS**

- CSA Monogram with C-US mark
- Company name
- Model number
- Serial number
- Electrical ratings
- Hazardous Locations Designation
- Temperature code
- Maximum ambient temperature
- Reference to installation drawing No A80011900 or No A80011901



CSA INTERNATIONAL

## *Supplement to Certificate of Compliance*

**Certificate:** 1205926

**Master Contract:** 155891 (LR 45322)

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

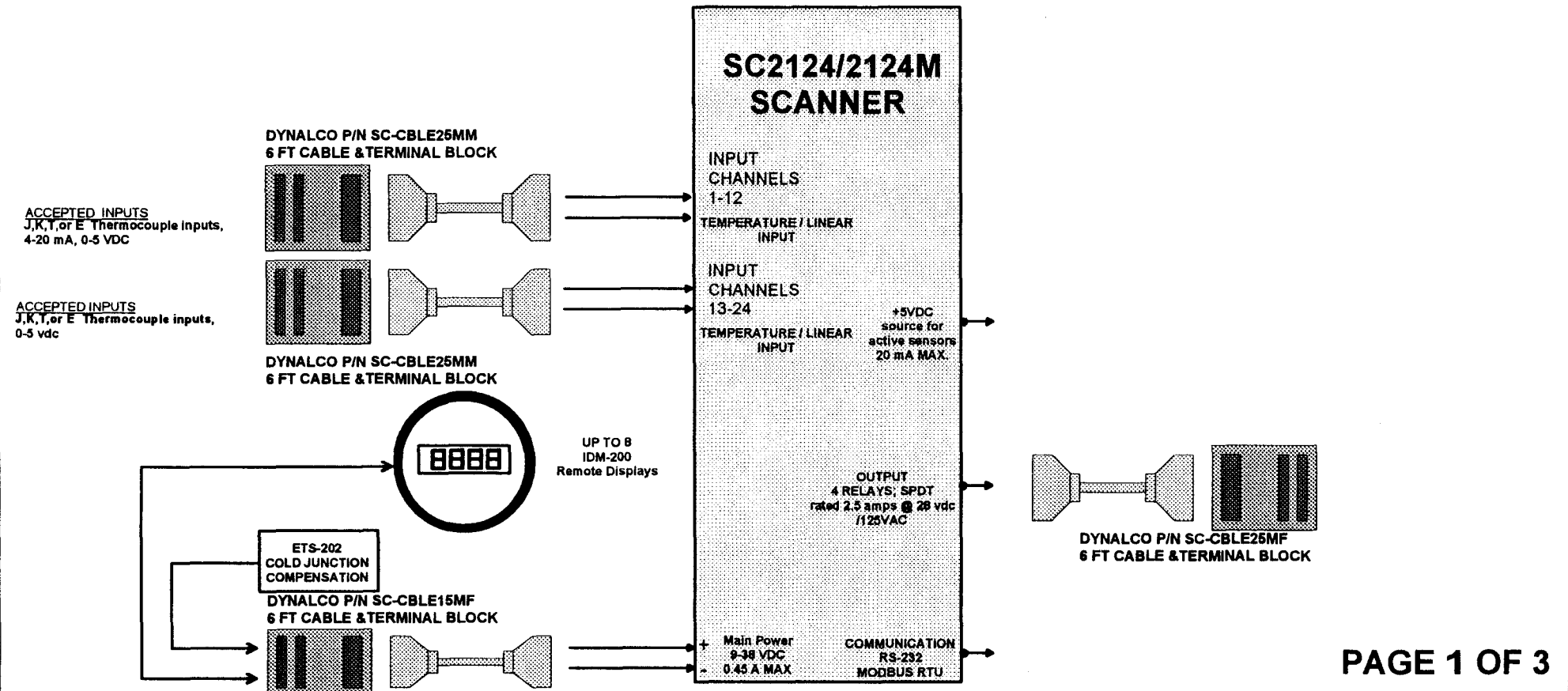
### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
1262175	November 26, 2001	Update to add the following components: SC-RTD and 485 LDRC
1205926	June 1 <sup>st</sup> , 2001	Original Certification.

# Components of CSA Certified SC-2124/2124M System

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
-	ORIGINAL RELEASE	4/30/01	DL
A	Moved the IDM connection to the din terminal	5/25/01	DL
B	Added "Non-Incendive" note to section 4.1	6/1/01	OD



PAGE 1 OF 3

See Installation Manual for detailed installation instructions.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:

FRACT.	DEC.	ANGLES
+/- 1/64	.XXX +/- .005 .XX +/- .01	+/- 1/2 DEGREE

MATERIAL:

FINISH:

<h1>DYNALCO</h1>		PRODUCT/PART	DATE
		<b>SC2124/2124M SCANNER SYSTEM</b>	<b>04-5-01</b>
		DRAWN	
		<b>D. L. EIDEKER</b>	
		APPROVED	
<h2>TITLE</h2> <b>CSA Certified Interconnections</b>			
SCALE	SIZE	DRAWING NUMBER	REV.
	<b>A</b>	<b>80011900</b>	<b>B</b>

REVISIONS			
LTR	DESCRIPTION	DATE	APPD

**SC-2000 Scanner System: Installation Instructions**  
**Addendum**

**Installing the SC-2000 Scanner System into a Class I,  
Division 2 Hazardous Location**

1.0 Overview

The SC-2000 Scanner System is certified by the Canadian Standards Association for use in Class I, Division 2, Groups A,B,C & D locations.

1.1 The following instructions and guidelines must be adhered to in order to help ensure that the installation of the SC-2000 Scanner system into a hazardous location is proper and will pass inspection by local authorities.

1.2 THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A,B,C & D OR NON-HAZARDOUS LOCATIONS ONLY.

WARNING - EXPLOSION HAZARD-SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I DIVISION 2.

WARNING-EXPLOSION HAZARD-DO NOT REPLACE FUSE UNLESS POWER HAS BEEN SWITCHED OFF OR AREA IS KNOWN TO BE NON-HAZARDOUS.

WARNING-EXPLOSION HAZARD-DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR AREA IS KNOWN TO BE NON-HAZARDOUS.

WARNING-EXPLOSION HAZARD-DO NOT CONNECT, DISCONNECT OR OPERATE A COMPUTER WITH THE SC-2000 SCANNER UNLESS POWER HAS BEEN SWITCHED OFF OR AREA IS KNOWN TO BE NON-HAZARDOUS.

**PAGE 2 OF 3**

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FRACT.	DEC.	ANGLES					
1/64	.XXX	1/2		SC2124/2124M	D. LEIDEKER	04-5-01	
	.XX	DEGREE		SCANNER SYSTEM	APPROVED		
MATERIAL:				TITLE			
FRONT:				<b>CSA Cert. Interconnections</b>			
SCALE		SIZE	DRAWING NUMBER		REV.		
		A	80011900		B		

REVISIONS			
LTR	DESCRIPTION	DATE	APPD

**2.0 General**

Local inspection of the completed SC-2000 System installation is necessary to meet CSA certification requirements.

The SC-2000 System is not CSA Certified when connected to a computer.

**3.0 Enclosures**

2.3 When specifying a junction box the following requirements must be met:

2.3.1 The enclosure must be suitable for Class I, Division 2 locations.

2.3.2 The enclosure must have provisions for attaching rigid metal conduit. This may be in the form of conduit knockouts, or the enclosure may have such openings drilled or punched.

2.3.3 The enclosure must have provisions for adequate grounding.

Additionally, the enclosure door should be gasketed and the general construction be suitable for the environment into which the system is installed.

**4.0 Wiring**

The following guidelines must be followed to meet CSA requirements for installation of the SC-2000 Scanner System into a Division 2 environment.

4.1 All wiring to and from the Scanner and the junction box or elsewhere must be run through rigid metal conduit except in such cases where locations are such as to require the use of flexible conduit. CSA certified flexible conduit may be used in such a circumstance.

**Exception to Rule:** Only those analog input channels having thermocouples as inputs, which makes those inputs "Non-Incendive".

4.2 Wiring of any portion of the system must be done using wire certified by CSA and rated for the application. These applications include, but are not limited to, ignition header connections, power connections, and end devices wiring.

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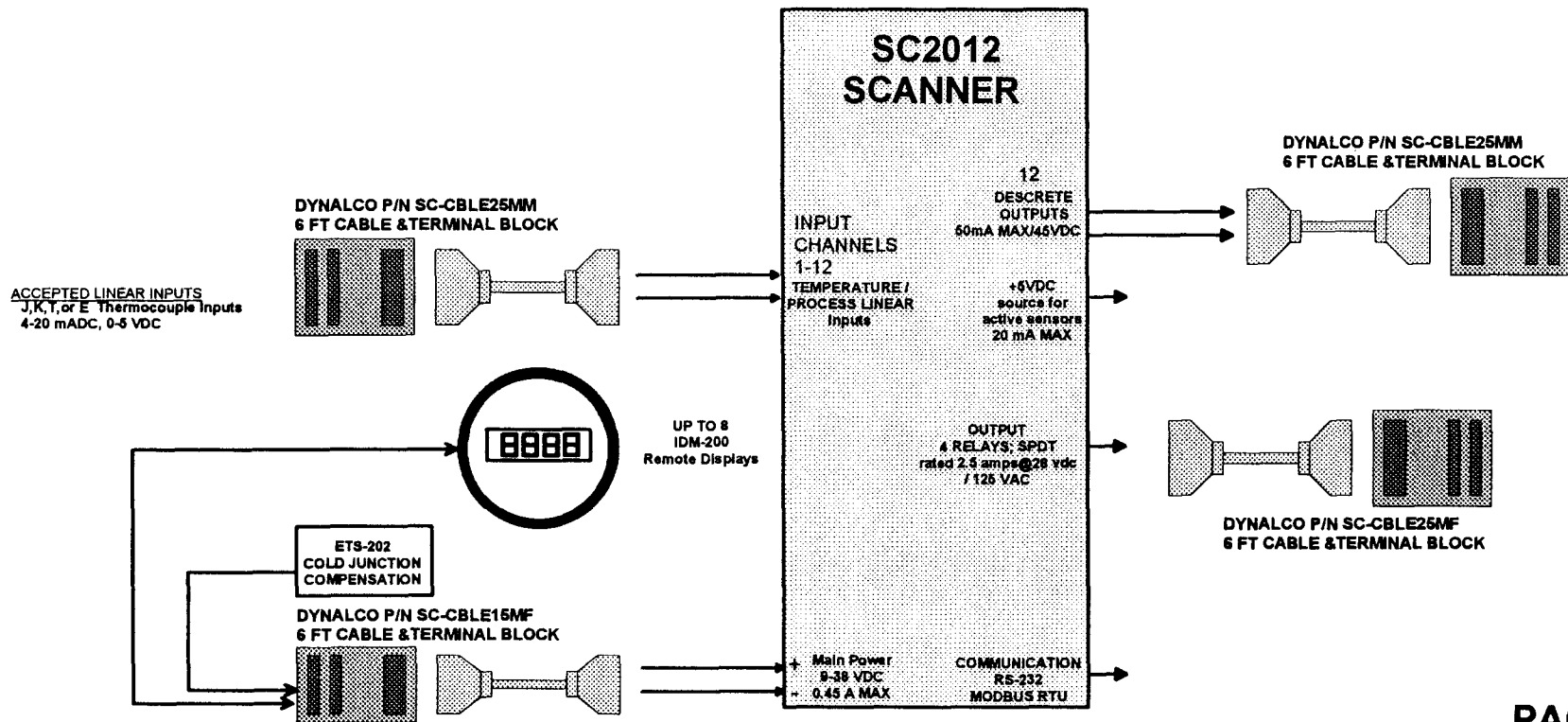
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FRACT.	DEC.	ANGLES	
+/- 1/64	.XX +/- .005	+/- 1/2	
	.XX +/- .01	DEGREE	
MATERIAL:			
FINISH:			
<b>DYNALCO</b>			
PRODUCT/PART		DRAWN	DATE
SC2124/2124M		D.LEIDEKER	04-5-01
SCANNER SYSTEM		APPROVED	
TITLE			
<b>CSA Cert. Interconnections</b>			
SCALE	SIZE	DRAWING NUMBER	REV.
	A	80011900	B

# Components of CSA Certified SC-2012 System

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
-	ORIGINAL RELEASE	4/30/01	DL
A	Moved the IDM connection to the din terminal	5/31/01	OD
B	Added "Non-Incendive" note to section 4.1	6/1/01	OD



PAGE 1 OF 3

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FRACT.	DEC.	ANGLES
+/- 1/64	.XXX +/- .005 .XX +/- .01	+/- 1/2 DEGREE
MATERIAL:		
FINISH:		

<h1>DYNALCO</h1>		
PRODUCT/PART <b>SC2012 SCANNER SYSTEM</b>		DRAWN <b>D. LEIDEKER</b>
		DATE <b>04-5-01</b>
APPROVED		
TITLE <b>CSA Certified Interconnections</b>		
SCALE	SIZE <b>A</b>	DRAWING NUMBER <b>80011901</b>
		REV. <b>B</b>

**REVISIONS**

LTR	DESCRIPTION	DATE	APPD
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FRACT. ±.1/64	DEC. XXX ±.005 XX ±.01	ANGLES ±.1/2 DEGREE	
MATERIAL:		DYNALCO	
FINISH:		PRODUCT/PART SC2012 SCANNER SYSTEM	DRAWN D. LEIDEKER APPROVED
		DATE 04-5-01	
TITLE <b>CSA Cert. Interconnections</b>			
SCALE	SIZE <b>A</b>	DRAWING NUMBER <b>80011901</b>	REV. <b>B</b>



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+/- .184	.XXX +/- .005	+/- 1/2 DEGREE		SC2012 SCANNER SYSTEM	D.LEIDEKER	04-5-01	
MATERIAL:				APPROVED			
FINISH:				TITLE			
				<b>CSA Cert. Interconnections</b>			
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