



Certificate of Compliance

Certificate: 70013111 (064969_0_000)

Master Contract: 167534

Project: 70077413

Date Issued: 2016-07-20

Issued to: Mine Safety Appliances Company North American Division
1000 Cranberry Woods Dr
Cranberry Township, Pennsylvania 16066-5296
USA

Attention: Stephen Kancel

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator 'US'



Issued by: *Rawn Murphy*
Rawn Murphy

PRODUCTS

CLASS - C225883 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive-Systems-For Hazardous Locations-Certified to U.S. Standards

Class I, Division 1, Groups C,D T1
Class II, Groups E,F,G T3B

Model G1-SCBA Self-Contained Breathing Apparatus accessories; Consists of the Mask-Mounted Regulator (MMR) module, the Battery Module, Control Module, the Power Module and the optional Speaker Module; Intrinsically Safe when powered by battery pack model number 7-2813-1 or 7-2814-1; Ambient operating range: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$.

Notes:

1. Battery pack model numbers 7-2813-1 and 7-2814-1 shall only be assembled as defined in the Critical Components section of the report.

The individual accessories are not permitted in the hazardous area as stand-alone entities; only the complete set of accessories installed in the finished goods harness assembly shall be accepted in the hazardous area.



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APPLICABLE REQUIREMENTS

UL Standard 508 <i>(Seventeenth Edition)</i>	Industrial Control Equipment
UL Standard 913 <i>(Fifth Edition)</i>	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division I Hazardous (Classified) Locations
UL Standard 913 <i>(Sixth Edition)</i>	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division I Hazardous (Classified) Locations

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 itemized marking requirements for the accessories shall appear on the following two permanent adhesive label materials:

	1 (Alkaline Battery Pack Label)	2 (Li-Ion Battery Pack Label)	3 (Main G1 SCBA Label located on the Power Module)
Size	1.7" x 4.678" (W x H)	1.7" x 4.678" (W x H)	58 mm x 27 mm (W x H)
Material	0.010" Lexan Polycarbonate (SABIC FR65) 2 Mil Acrylic Adhesive (3M LSE 300)	0.010" Lexan Polycarbonate (SABIC FR65) 2 Mil Acrylic Adhesive (3M LSE 300)	0.010" Lexan Polycarbonate (SABIC FR65) 2 Mil Acrylic Adhesive (3M LSE 300)
Ink	Black; White	Black; White	Black; White; Orange Prints PMS #165
Printing	Reverse Printed	Reverse Printed	Reverse Printed
Features	Integrated Pull Tab in Die Line	Integrated Pull Tab in Die Line	6 mm Pull Tab
Comments	Die Line indicated by PMS 242 Purple and does	Die Line indicated by PMS 242 Purple and does	Die Line indicated by PMS 242 Purple and does not print






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	not print	not print	
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- The following words shall appear on the adhesive nameplate on the body of the Power Module enclosure:
 - Manufacturer’s name, “MSA Company”, “MSA” or CSA Master Contract Number “167534” in lieu of Manufacturer’s name, adjacent to the CSA Mark.
 - Model number (type designation): as specified in the PRODUCTS section.
 - Manufacturing date in MMY format, or serial number, traceable to month and year of manufacture (Externally viewable through a transparent window of the externally located adhesive label).
 - The CSA Mark, as shown on page 1 of the Certificate of Conformity.
 - Hazardous Location designation: as specified in the PRODUCTS section, above.
 - Temperature Code: as specified in the PRODUCTS section, above.
 - “Exia”




The following cautions and warnings in English (may also be provided in French):

- “INTRINSICALLY SAFE”
- “ WARNING: UNDERSTAND MANUAL BEFORE OPERATING” may be combined with “WARNING – TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, READ, UNDERSTAND AND ADHERE TO THE LIVE MAINTENANCE PROCEDURES CONTAINED IN THE MANUAL” (This literature shall accompany each apparatus)
- “ WARNING – EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY” (Equivalent wording is acceptable).
- “ WARNING – USE ONLY BATTERY PACK MODEL NUMBER 7-2813-1 or 7-2814-1” (Equivalent wording is acceptable).

- The following shall appear on the Battery Pack:

- Either engraved into the housing or printed onto the permanent adhesive nameplate label -
 - Battery Pack Model number and Manufacturer’s name, “MSA Company” or “MSA”.
 - Manufacturing date in MMY format, or serial number, traceable to month of manufacture.

The following cautions and warnings in English (may also be provided in French):

- “ WARNING: DO NOT MIX OLD/NEW OR DIFFERENT TYPE BATTERIES” (Equivalent wording is acceptable).
- “ WARNING: CHANGE AND/OR RECHARGE BATTERIES ONLY IN A NONHAZARDOUS LOCATION” (Equivalent wording is acceptable).
- “ WARNING: THIS BATTERY PACK IS EXCLUSIVELY DESIGNED FOR INSTALLATION AS THE POWER SUPPLY FOR THE Model G1-SCBA” (Equivalent wording is acceptable).

- The INSTRUCTION/ OPERATOR’S MANUAL shall contain:

- The complete listing of approved battery cells for battery pack model number 7-2813-1
- The following cautions and warnings in English (may also be provided in French) –





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- “ WARNING: CHANGE AND/OR RECHARGE BATTERIES ONLY IN A NONHAZARDOUS LOCATION” (Equivalent wording is acceptable).