



Certificate: 1482880 (LR 90397-1)

Master Contract: 181472

Project: 1550252

Date Issued: 2004/06/01

CSA Std C22.2 No. 152-M1984 - Combustible Gas Detection Instruments

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

MARKINGS

Triple Plus, Triple Plus+ and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA
- The words "C22.2 NO 152".
- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA



Supplement to Certificate of Compliance

Certificate: 1482880

Master Contract: 181472

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

Product Certification History

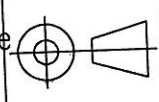
Project	Date	Description
1550252	2004/06/01	Update Report to cover alternate back-up battery and diode.
1482880	2004/01/09	Update Report to Cover Revised Construction / Drawings.

History

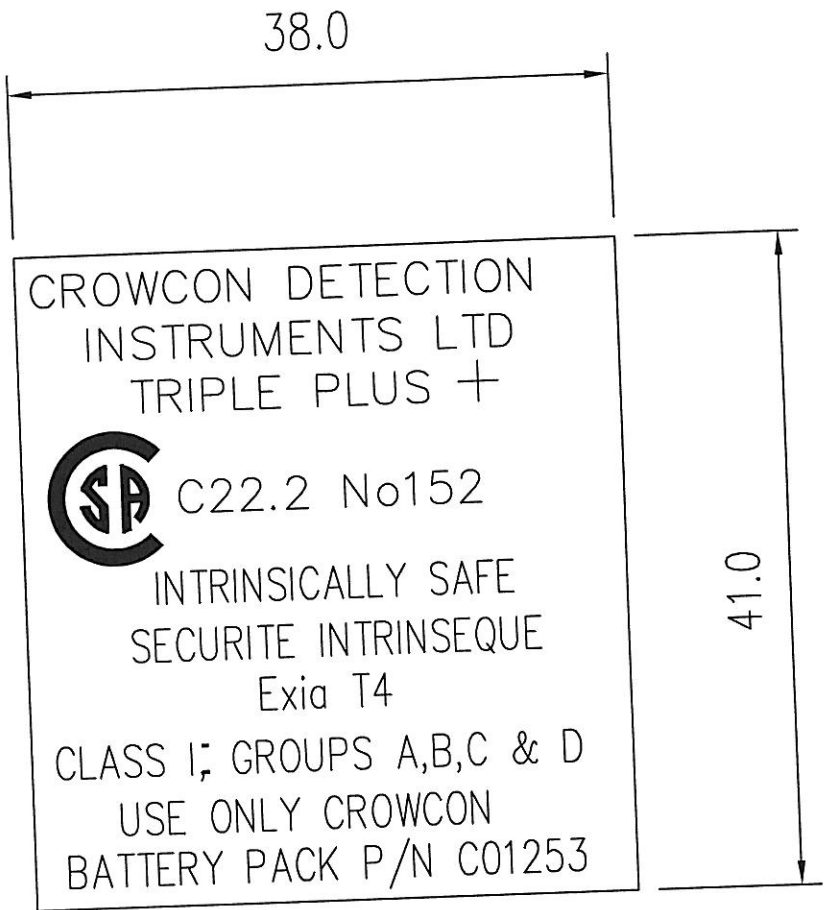
- 20 Mar. 9/99 Add new oxygen sensors, revised construction and new model Triple Plus+.
- 19 Sept. 14/98 Add alternative memory back-up battery.
- 18 July 15/98 Add manufacturer for Toxic Sensor.
- 16 Sept. 26/97 Revised construction of pump.
- 12 June 10/96 Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.

DRG No. TRP-1662-A4 ISS. 3
 USED ON STOCK No. M05-318

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DO NOT SCALE DRAWING. IF IN DOUBT ASK. DRAWN TO B.S.308/3939



NOTES:

1. BACKGROUND COLOUR - ORANGE TO CROWCON REF TRP-1626-A4
2. LETTERING COLOUR - BLUE PANTONE 287
3. LETTERING STYLE - HELVETICA MEDIUM 2.0 mm HIGH

Certified Product.
 No modifications permitted without approval of authorised person

		MATERIAL 0.005" VELVET POLYCARB ADHESIVE - B205		TOLERANCES GEN= ±0.2 ANG= ±1°		CROWCON 2 Blacklands Way, Abingdon Business Park, Abingdon, Oxfordshire OX14 1DY	
		FINISH SEE NOTES		DIMS mm		TITLE CSA CERTIFICATION LABEL (TRIPLEPLUS+)	
3		11/98	PROJECT No.		SHT SIZE A4		
ISSUE	D.C.I. No.	DATE	DRN AJQ	CHKD	APPR	ORIGINAL SCALE 2:1	DRG. No. TRP-1662-A4 ISS. 3



Certificate of Compliance

Certificate: 1482880 (LR 90397-1)

Master Contract: 181472

Project: 1482880

Date Issued: 2004/01/09

Issued to: **Crowcon Detection Instruments
Limited
2 Blacklands Way
Abingdon Business Park
Oxon
Abingdon, OX14 1DY
United Kingdom
Attention: Mr. Imran Adam**

The products listed below are eligible to bear the CSA Mark shown



Issued by:

Noel Harriott

Authorized by:

Mick Alfano, Operations
Manager

PRODUCTS

CLASS 4828 01 - SIGNAL APPLIANCES - - Combustible Gas Detection Instruments - For
Hazardous

Triple Plus, Triple Plus+ and Triple Plus DLG, portable, four channel, multi-gas detector (combustibles, toxics and oxygen), battery operated (CROWCON battery pack, P/N C01253); intrinsically safe with or without integral sampling pump, Temp Code T4.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CSA Std C22.2 No. 152-M1984 - Combustible Gas Detection Instruments

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous



Supplement to Certificate of Compliance

Certificate Number: LR 90397-1

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire, OX14 1DY
England
Attention: Mr. Leigh K. Greenham

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

Issued By: G. Black
Toronto, ON Canada

Signature

Product Certification History

Revision	Date	Description
-20	Mar. 9/99	Add new oxygen sensors, revised construction and new model Triple Plus+.
-19	Sept. 14/98	Add alternative memory back-up battery.
-18	July 15/98	Add manufacturer for Toxic Sensor.
-16	Sept. 26/97	Revised construction of pump.
-12	June 10/96	Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.



Certificate: 1482880 (LR 90397-1)

Master Contract: 181472

Project: 1482880

Date Issued: 2004/01/09

Locations

MARKINGS

Triple Plus, Triple Plus+ and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA
- The words "C22.2 NO 152".
- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA



Supplement to Certificate of Compliance

Certificate: 1482880

Master Contract: 181472

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
1482880	2004/01/09	Update Report to Cover Revised Construction / Drawings.

History

- 20 Mar. 9/99 Add new oxygen sensors, revised construction and new model Triple Plus+.
- 19 Sept. 14/98 Add alternative memory back-up battery.
- 18 July 15/98 Add manufacturer for Toxic Sensor.
- 16 Sept. 26/97 Revised construction of pump.
- 12 June 10/96 Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.



Certificate of Compliance

Certificate Number: LR 90397-1

Revision: LR 90397-20

Date Issued: March 9, 1999

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire, OX14 1DY
England
Attention: Mr. Leigh K. Greenham

The products listed below are eligible to bear the CSA Mark shown



Issued by: G. Black
Toronto, ON Canada

Signature: *Glen Black*

PRODUCTS

CLASS 4828 01 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations

Triple Plus, Triple Plus+ and Triple Plus DLG, portable, four channel, multi-gas detector (combustibles, toxics and oxygen), battery operated (CROWCON battery pack, P/N C01253); intrinsically safe with or without integral sampling pump, Temp Code T4.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.	30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No.	152-M1984	- Combustible Gas Detection Instruments
CAN/CSA-C22.2 No.	157-92	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

Certificate No: LR 90397-1



Date: March 9, 1999

Revision: LR 90397-20

MARKINGS

Triple Plus, Triple Plus+ and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253"
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA"
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- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA



Certificate of Compliance

Certificate Number: LR 90397-1

Revision: LR 90397-19

Date Issued: September 14, 1998

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire, OX14 1DY
England
Attention: Mr. Leigh K. Greenham

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Issued By: G. Black
Toronto, ON Canada

Signature *G. Black*

CLASS

4828 01 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations

PRODUCTS

Triple Plus and Triple Plus DLG, portable, four channel, multi-gas detector (combustibles, toxics and oxygen), battery operated (CROWCON battery pack, P/N C01253); intrinsically safe with or without integral sampling pump, Temp Code T4.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.	30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No.	152-M1984	- Combustible Gas Detection Instruments
CAN/CSA-C22.2 No.	157-92	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations




Supplement to Certificate of Compliance

Certificate Number: LR 90397-1

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
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Attention: Mr. Leigh K. Greenham

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Toronto, ON Canada

Signature 

Product Certification History

Revision	Date	Description
-18	July 15/98	Add manufacturer for Toxic Sensor.
-16	Sept. 26/97	Revised construction of pump.
-12	June 10/96	Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.



Supplement to Certificate of Compliance

Certificate Number: LR 90397-1

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
2 Blacklands Way
Abingdon Business Park
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Attention: Mr. Leigh K. Greenham

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Issued By: G. Black
Toronto, ON Canada

Signature *Glenon Black*

Product Certification History

Revision	Date	Description
-19	Sept. 14/98	Add alternative memory back-up battery.
-18	July 15/98	Add manufacturer for Toxic Sensor.
-16	Sept. 26/97	Revised construction of pump.
-12	June 10/96	Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.

Certificate No: LR 90397-1



Date: September 14, 1998

Revision: LR 90397-19

MARKINGS

Triple Plus and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA
- The words "C22.2 NO 152".
- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA



Certificate of Compliance

Certificate Number: LR 90397-1

Revision: LR 90397-18

Date Issued: July 15, 1998

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire, OX14 1DY
England
Attention: Mr. Leigh K. Greenham

The products listed below are eligible to bear the CSA Mark.

Issued By: G. Black
Toronto, ON Canada

Signature *Glen Black*

CLASS

4828 01 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations

PRODUCTS

Triple Plus and Triple Plus DLG, portable, four channel, multi-gas detector (combustibles, toxics and oxygen), battery operated (CROWCON battery pack, P/N C01253); intrinsically safe with or without integral sampling pump, Temp Code T4.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.	30-M1986	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No.	152-M1984	-	Combustible Gas Detection Instruments
CAN/CSA-C22.2 No.	157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

Certificate No: LR 90397-1



Date: July 15, 1998

Revision: LR 90397-18

MARKINGS

Triple Plus and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253"
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA"
- The words "C22.2 NO 152".
- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA



Certificate of Compliance

Certificate Number: LR 90397-1

Revision: LR 90397-16

Date Issued: September 26, 1997

Issued To: **CROWCON DETECTION INSTRUMENTS LTD.**
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire, OX14 1DY
England
Attention: Mr. Leigh K. Greenham

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Issued By: G. Black
Toronto, ON Canada

Signature *Glen Black*

CLASS

4828 01 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations

PRODUCTS

Triple Plus and Triple Plus DLG, portable, four channel, multi-gas detector (combustibles, toxics and oxygen), battery operated (CROWCON battery pack, P/N C01253); intrinsically safe with or without integral sampling pump, Temp Code T4.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.	30-M1986	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No.	152-M1984	-	Combustible Gas Detection Instruments
CAN/CSA-C22.2 No.	157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations



Supplement to Certificate of Compliance

Certificate Number: LR 90397-1

Issued To: CROWCON DETECTION INSTRUMENTS LTD.
2 Blacklands Way
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Attention: Mr. Leigh K. Greenham

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Issued By: G. Black
Toronto, ON Canada

Signature *Glen Black*

Product Certification History

Revision	Date	Description
-12	June 10/96	Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.

DQD 507/bds

Certificate No: LR 90397-1



Date: September 26, 1997

Revision: LR 90397-16

MARKINGS

Triple Plus and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA
- The words "C22.2 NO 152".
- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA



Supplement to Certificate of Compliance

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Attention: Mr. Leigh K. Greenham

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Issued By: G. Black
Toronto, ON Canada

Signature *Glenn Black*

Product Certification History

Revision	Date	Description
-16	Sept. 26/97	Revised construction of pump.
-12	June 10/96	Add Optional Thermal Conductivity Sensor to Triple Plus and Triple Plus DLG.



Certificate of Compliance

Certificate Number: LR 90397-1

Revision: LR 90397-11

Date Issued: April 19, 1996

Issued To: CROWCON DETECTION INSTRUMENTS LTD.
2 Blacklands Way
Abingdon Business Park
Abingdon, Oxfordshire, OX14 1DY
England
Attention: Mr. Leigh K. Greenham

The products listed below are eligible to bear the CSA Mark.

Issued By: G. Black
Toronto, ON Canada

Signature

CLASS

4828 01 - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations

PRODUCTS

Triple Plus and Triple Plus DLG, portable, four channel, multi-gas detector (combustibles, toxics and oxygen), battery operated (CROWCON battery pack, P/N C01253); intrinsically safe with or without integral sampling pump, Temp Code T4.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No.	30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No.	152-M1984	- Combustible Gas Detection Instruments
CAN/CSA-C22.2 No.	157-92	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations



Certificate of Compliance

Certificate Number: LR 90397-1

Revision: LR 90397-11

Date Issued: April 19, 1996

MARKINGS

Triple Plus and Triple Plus DLG

- CSA Monogram
- Submitter Identification
- Model Number
- Hazardous Location Designation
- Temperature Code
- The words INTRINSICALLY SAFE/SECURITE INTRINSEQUE
- The Symbol Exia
- Wording re: "USE ONLY CROWCON BATTERY PACK P/N C01253"
- Warning re: "UNDERSTAND MANUAL BEFORE OPERATING"
- Wording re: "CHANGE BATTERIES IN NON HAZARDOUS AREA"
- The words "C22.2 NO 152".
- Bilingual Caution re Substitution of Components: WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE

Battery Pack

- Company Identification
- Model Number
- Wording re: DO NOT CHARGE IN HAZARDOUS AREA