EU-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially

Explosive Atmospheres - Directive 2014/34/EU

3 EU-Type Examination Certificate No: FM21ATEX0071X

4 Equipment or protective system: (Type Reference and Name)

ULTIMA® X5000 Gas Monitor fixed gas detection system (ULTIMA® X5000 transmitter & ULTIMA® X5000 or JB5000

Junction Box) and ULTIMA® XIR Plus sensor

5 Name of Applicant:

MSA - The Safety Company

6 Address of Applicant:

1000 Cranberry Woods Drive Cranberry Township, PA 16066 USA

- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.
- 8 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

PR460997 dated 9th August 2022

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018 + AC:2020, EN 60079-1:2014, EN 60079-31:2014, EN 60079-29-1:2016 + AMD1:2020, EN 50104:2019, EN 50271:2018, EN 60529:1991 +A1:2000 +A2:2013

- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- 11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

Martin Crowe
Certification Manager, FM Approvals Europe Ltd.

Issue date: 07th February 2023

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12 The marking of the equipment or protective system shall include:

ULTIMA® XIR Plus Sensor:



II 2GD Ex db IIC T6 Gb Ex tb IIIC T85°C Db -40°C ≤ Ta ≤ +60°C EN 60079-29-1 EN 50104 IP66

ULTIMA® X5000 Transmitter:



II 2GD Ex db IIC T6 Gb Ex tb IIIC T85°C Db -40°C ≤ Ta ≤ +60°C EN 60079-29-1 EN 50104 IP66

ULTIMA® X5000 Junction Boxes:



II 2G Ex db IIC T6 Gb -40°C ≤ Ta ≤ +60°C EN 60079-29-1 IP66

ULTIMA® JB5000 Junction Boxes:



II 2GD Ex db IIC T6 Gb Ex tb IIIC T85°C Db -55°C ≤ Ta ≤ +75°C EN 60079-29-1 EN 50104 IP66

13 Description of Equipment or Protective System:

The ULTIMA® X5000 Gas Monitor fixed gas detection system is designed to measure specified percentage volumes of methane and propane gases or a variety of toxic gases or oxygen. The system comprises an ULTIMA® X5000 transmitter base unit and an optional ULTIMA® X5000 or JB5000 Junction Box fitted with an arrangement of up to a pair of two factory-configured combustible, toxic or oxygen gas sensors. The ULTIMA® X5000 Transmitter provides an Organic LED (OLED) display, power, alarm and fault indicators, Bluetooth indication, two 4-20 mA measurement signal outputs, Bluetooth, Modbus (via a Bus Communication Module), wireless HART as well as wired HART communication capabilities and an optional 3 alarm SPDT relay output.

The ULTIMA® X5000 Transmitter is the control unit of the ULTIMA® X5000 Gas Monitor fixed gas detection system and the enclosure of the transmitter is designed for Flameproof (Ex db) and Dust protection by enclosure (Ex tb). The enclosure is provided with either ¾ NPT or M25 threaded entries and a certified adapter can be supplied for M25 entries which can be fitted with the sensors described below or suitably certified cable entry devices or blanking plugs. The equipment enclosure has been separately tested against the requirements of IEC 60529 and meets IP66.

The ULTIMA® X5000 and JB5000 Junction Boxes are the remote mounting units of ULTIMA® X5000 Gas Monitor fixed gas detection system and the Junction Box enclosures are designed for Flameproof (Ex db) and Dust protection by enclosure (Ex tb). The X5000 and the JB5000 enclosures are provided with either 3/4" NPT or M25 threaded entries and a certified adapter can be supplied for M25 entries which can be fitted with the sensors described below or suitably certified cable entry devices or blanking plugs. The equipment enclosure has been separately tested against the requirements of IEC 60529 and meets IP66.

The ULTIMA® XIR Plus Sensor assembly is the infra-red sensor unit of the ULTIMA® X5000 Gas Monitor fixed combustible and toxic gas detection configurations. The ULTIMA® XIR Plus Sensor is designed for Flameproof (Ex db). The equipment enclosure has been separately tested against the requirements of IEC 60529 and meets IP66.

The ULTIMA® X5000 system makes use of two sensor types including a Digital Sensor for combustible,

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toxic or oxygen gas detection and an IR (infrared) sensor for combustible gas detection, all mounted via conduit entries. The permitted sensor configurations follow:

- Two-Digital Sensors (combustible, toxic or oxygen) installed either integral to the ULTIMA® X5000 transmitter or one integral and one remote via the ULTIMA® X5000 or JB5000 Junction Box or two remote via two separate ULTIMA® X5000 or JB5000 Junction Boxes.
- One ULTIMA® XIR Plus Sensor and one Digital Sensor (combustible, toxic or oxygen) installed either integral to the ULTIMA® X5000 transmitter, one integral and one remote or remotely via an ULTIMA® X5000 or JB5000 Junction Box or two remote via two separate ULTIMA® X5000 or JB5000 Junction Boxes.
- Two-ULTIMA® XIR Plus Sensors installed either integral to the ULTIMA® X5000 transmitter or one integral and one remote via the ULTIMA® X5000 or JB5000 Junction Box or two remote via two separate ULTIMA® X5000 or JB5000 Junction Boxes.

The product model code options of the ULTIMA® X5000 gas detection systems (Combustible, toxic or oxygen) featuring the ULTIMA® X5000 transmitter, ULTIMA® X5000 Junction Boxes, JB5000 Junction Boxes, ULTIMA® X5000 XIR Plus Sensor and the Digital Sensors are shown in the Model Code Options section below. The applicable configuration limitations resulting from the hazardous area classifications can be derived in the model codes. The equipment enclosures have been separately tested against the requirements of IEC 60529 for Ingress Protection levels.

Model Code Options:

The X5000 Transmitter:

he X5000 Transmitter:			
lodel coding on the transmitter enclosure is shown below:			
ULTIMA® X5000 transmitter (equipment) Software Revision: 2,00,0065			
Model reference Description			
A-X5000-abcdeffggh Transmitter control unit of the Fixed Gas Detection System for explosive gas atmospheres; where up to two sensors may be considered in the coupled to the transmitter enclosure or one coupled to the transmitter enclosure — only one substitution Box permitted; two Digital Sensors or/ one ULTIMA® sensor and one Digital Sensor or/ two ULTIMA® XIR Plus ser permitted for installation (the main transmitter enclosure and the June enclosure)			
a is for Enclosure Material: 0 = Stainless Steel - ³ / ₄ " NPT 1 = Aluminum - ³ / ₄ " NPT 2 = Stainless Steel - M25 b is A = IECEx (ATEX) c is for Bluetooth: 0 = Yes 1 = No d is for Output Communication: 0 = Analog/HART 1 = Analog/HART/Relays 3 = Analog/HART/Relays/Isolate Modbus e is 0 = Default place holder, not relevant to certification ff is for Sensor 1 selection: gg is for Sensor 2 selection: h is for Tag: 0 = None			
T# = (# = 1, 2, or 3) Stainless Steel affixed tags			

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Sensors: for Sensor Selection ff or gg: (Sensors tested to EN 60079-29-1 or EN 50104 are denoted by [^]) - ULTIMA® XIR Plus sensor selections include: 00 = No Sensor AA = IR Combustible 0 - 100% LEL - 5% Methane [^] AB = IR Combustible 0 - 100% LEL - 2.1 % Propane [^] AC = IR Combustible 0-100% LEL - 4.4 % Methane [^] AD = IR Combustible 0-100% LEL - 1.7% Propane [^] AK = IR Combustible 0 - 100% LEL - 2.5% Acetone [^] AS = IR Combustible 0 - 100% LEL - 1.2% Benzene [^] BY = IR Combustible 0 - 100% LEL - 3.3% Ethanol [^] CD = IR Combustible 0 - 100% LEL - 2.7% Ethylene [^] CF = IR Combustible 0 – 100% LEL – 3% Ethylene Oxide [^] CJ = IR Combustible 0 - 100% LEL - 1.1% Hexane [^] CP = IR Combustible 0 – 100% LEL – 2% Isopropanol [^] DJ = IR Combustible 0 - 100% LEL - 1.7% Methyl Methacrylate [^] FJ = IR Combustible 0 - 100% LEL - 3.1% Ethanol [^] FL = IR Combustible 0 - 100% LEL - 2.3% Ethylene [^] FM = IR Combustible 0 - 100% LEL - 2.6% Ethylene Oxide [^] FP = IR Combustible 0 - 100% LEL - 1% Hexane [^] xx = Any two digit letter representing Gas Type ULTIMA® XIR Plus infrared Combustible sensor, not verified by FM Approvals for the specific flammable gas for performance to EN 60079-29-1 xx = Any two digit letter representing Toxic Type ULTIMA® XIR Plus infrared Toxic sensor - Digital Sensor selections include: 00 = No Sensor or Sensor Body (transmitter only) 01 = No Sensor fine thread w/blank element) 02 = No Sensor (sensor body coarse thread w/blank element) 15 = Oxygen, 0-25% [^] 60 = Combustible, 0-100% LEL - 5% Methane [^] 61 = Combustible, 0-100% LEL - 2.1%Propane [^] 62 = Combustible, 0-100% LEL - 1.05% Heptane [^] 63 = Combustible, 0-100% LEL - 0.8% Nonane [^] 64 = Combustible, 0-100% LEL - 4.0% Hydrogen [^] 65 = Combustible, 0-100% LEL - 4.4 % Methane [^] 66 = Combustible, 0-100% LEL - 1.7% Propane [^] 67 = Combustible, 0-100% LEL - 0.85% Heptane [^] 68 = Combustible, 0-100% LEL - 0.7% Nonane [^] xx = Any two digit number representing Gas Type Digital Sensor (With FRIT), not verified by FM Approvals for the specific flammable gas for performance to EN 60079-29-1 or EN 50104. xx = Any two digit number representing Toxic Type Digital Sensor (With FRIT).

The ULTIMA® X5000 Junction Boxes:

Model coding appearing on the Junction Box enclosure are shown below:

ULTIMA® X5000 Junction Box (equipment)	
Model reference	Description
10179509	ULTIMA® X5000 Junction Box; Stainless Steel, ¾" NPT

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10179511	ULTIMA® X5000 Junction Box; Stainless Steel, M25
10179513	ULTIMA® X5000 Junction Box; Aluminum, ¾" NPT

ULTIMA® XIR Plus sensor:

Model coding appearing on ULTIMA® XIR Plus sensor are shown below:

	ULTIMA® XIR Plus sensor (equipment)		
Firmware Revision: 3.2			
Model reference	Description		
A-5K-SENS- aa-b-c-d-e	ULTIMA® XIR Plus infrared Combustible sensor; Gas Type verified		
	for Performance per "EN 60079-29-1" where the following applies:		
	aa is for Gas Type (verified for Performance):		
	AA = IR Combustible 0 – 100% LEL – 5% Methane		
	AB = IR Combustible 0 – 100% LEL – 2.1 % Propane		
	AC = IR combustible 0-100% LEL – 4.4% Methane		
	AD = IR combustible 0-100% LEL – 1.7% Propane		
	AK = IR Combustible 0 – 100% LEL – 2.5% Acetone		
	AS = IR Combustible 0 – 100% LEL – 1.2% Benzene		
	BY = IR Combustible 0 – 100% LEL – 3.3% Ethanol		
	CD = IR Combustible 0 – 100% LEL – 2.7% Ethylene		
	CF = IR Combustible 0 – 100% LEL – 3% Ethylene Oxide		
	CJ = IR Combustible 0 – 100% LEL – 1.1% Hexane		
	CP = IR Combustible 0 – 100% LEL – 2% Isopropanol DJ = IR Combustible 0 – 100% LEL – 1.7% Methyl Methacrylate		
	FJ = IR Combustible 0 - 100% LEL – 3.1% Ethanol		
	FL = IR Combustible 0 - 100% LEL - 2.3% Ethylene		
	FM = IR Combustible 0 - 100% LEL - 2.6% Ethylene Oxide		
	FP = IR Combustible 0 - 100% LEL – 1% Hexane		
	b is 0 = Stainless Steel		
	c is A = ATEX/UKCA/IECEx		
	d is for Sensor Body: 1 = ³ ⁄ ₄ " NPT		
	2 = M25		
	e is 0 = not relevant to certification		
	e is 0 - not rejevant to certification		
	ULTIMA® XIR Plus infrared Combustible sensor; Gas Type not verified for		
	Performance per "EN 60079-29-1" where the following applies:		
	enormance per EN 00075 25 1 Where the following applies.		
	aa is for Gas Type		
	xx = Any two digit number representing a Gas Type not verified by FM		
	Approvals for the specific flammable gas for performance to EN		
	60079-29-1.		
	b is 0 = Stainless Steel		
	c is A = ATEX/UKCA/IECEx		
	d is for Sensor Body:		
	1 = ¾" NPT		
	2 = M25		
	e is 0 = not relevant to certification		
	ULTIMA® XIR Plus infrared Toxic sensor; where the following applies:		
	aa is for Gas Type Toxic Type:		
	xx = Any two digit letter representing Toxic Type ULTIMA® XIR Plus		

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infrared Toxic sensor b is 0 = Stainless Steel c is A = ATEX/UKCA/IECEx
d is for Sensor Body: 1 = 3/4" NPT
2 = M25 e is 0 = Not relevant to certification

The JB5000 Junction Boxes:

Model coding appearing on the Junction Box enclosure are shown below:

JB5000 Junction Box (equipment)			
Model reference	Description		
10213879	JB5000 Junction Box; Stainless Steel, ½" NPT		
10213893	JB5000 Junction Box: Stainless Steel, M25		

14 Specific Conditions of Use:

14.1 ULTIMA® X5000 transmitter:

- 14.1.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall only be cleaned with a damp cloth.
- 14.1.2 This fixed equipment is exclusively designed for field mounting in the vertical orientation with restrictions placed around the conduit entry locations permitted for connection of both the Digital Sensor and ULTIMA® XIR Plus infrared (IR) sensors. The equipment is subject to the installation and orientation requirements defined in the product manual.
- 14.1.3 The flameproof joints shall not be repaired.
- 14.1.4 It is recommended to end users to seek guidance provided in EN 60079-29-2 for installation, use and maintenance of gas detectors for flammable gases and other applicable gases.
- 14.1.5 Guidance for functional safety of fixed gas detection systems are set out in EN 60079-29-3 which has not been covered in the scope of this assessment.

14.2 ULTIMA® X5000 Junction Box:

- 14.2.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall only be cleaned with a damp cloth.
- 14.2.2 This fixed equipment is exclusively designed for field mounting in the vertical orientation with restrictions placed around the conduit entry locations permitted for connection of the Digital Sensor and the ULTIMA® XIR Plus infrared (IR) sensor. The equipment is subject to the installation and orientation requirements defined in the product manual.
- 14.2.3 The flameproof joints shall not be repaired.

14.3 ULTIMA® XIR Plus Sensor:

- 14.3.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipmentmay generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall only be cleanedwith a damp cloth.
- 14.3.2 The flameproof joints shall not be repaired.
- 14.3.3 The ULTIMA® XIR Plus infrared (IR) sensor is provided with a ¾" NPT thread and shall only be connected to a suitably certified junction box or instrument for the hazardous area of installation and thereby provide Ex protection for the flying lead connections. The installation to the certified enclosure shall be with five fully engaged threads, tightened wrench-tight.
- 14.3.4 The ULTIMA® XIR Plus infrared (IR) sensor shall only be fitted to enclosures having a maximum reference pressure of 13.5 bars.

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- 14.3.5 In combustible gas detection performance applications, the appropriate ULTIMA® XIR Plus model number shall only be used to construct the ULTIMA® X5000 Gas Monitor fixed gas detection system; mounted onto either the ULTIMA® X5000 transmitter or ULTIMA® X5000 Junction Box enclosures and receive power and control from the transmitter.
- 14.3.6 The Ingress Protection rating is exclusively based upon the installation instruction for orientation specified in the operating manual.
- 14.3.7 Guidance for Installation of fixed gas detection systems are set out in EN 60079-29-2 which has not been covered in the scope of this assessment.
- 14.3.8 Guidance for functional safety of fixed gas detection systems are set out in EN 60079-29-3 which has not been covered in the scope of this assessment.
- 14.3.9 The XIR Plus Sensor enclosure with Sensor Guard (opaque cover) or enclosure must fully contain the optical radiation and comply with a suitable type of protection as required by the involved EPL, complying with one of the following conditions:
 - An enclosure for which protection regarding ingress of an explosive dust atmosphere is provided, such as dust protection "t" enclosures" (IEC 60079-31), or
 - An enclosure that provides a minimum ingress protection of IP 6X and where no internal absorbers are to be expected and complying with "Tests of enclosures" in IEC 60079-0.
- 14.3.10 When the manufacturer of the equipment has not identified the type of protection on the label, the user shall, on installation, mark the label adjacent to the type of protection used. Once the type of protection has been marked it shall not be changed.

14.4 JB5000 Junction Box

- 14.4.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall only be cleaned with a damp cloth.
- 14.4.2 This fixed equipment is exclusively designed for field mounting in the vertical orientation with restrictions placed around the conduit entry locations permitted for connection of the Digital Sensor and the ULTIMA® XIR Plus infrared (IR) sensor. The equipment is subject to the installation and orientation requirements defined in the product manual.
- 14.4.3 The flameproof joints shall not be repaired.

14.5 **Conditions relating to EN 50271:2018**

- 14.5.1 The user shall comply with the requirements given in the manufacturer's user documentation in regards to all relevant functional safety aspects such as application of use, installation out of hazardous areas, operation, maintenance, proof tests, maximum ratings, environmental conditions, and repair.
- 14.5.2 Selection of this equipment for use in safety functions, configuration, overall validation, maintenance and repair shall only be carried out by competent personnel, observing all the manufacturer's conditions and recommendations in the user documentation.

15 **Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives

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to EU-Type Examination Certificate No. FM21ATEX0071X

in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
10 th August 2022	Original Issue.
07 th February 2023	Supplement 1: Report Reference: RR234893 dated 6 th February 2023. Description of the Change: Minor changes to replace an obsolete component. Various drawing updates to correlate with previously approved changes. No change to firmware. Minor edits to certificate format and text.
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Blueprint Report

MSA Innovation LLC dBA MSA - The Safety Company (1000001671)

Class No 6340

Original Project I.D. 449063 Certificate I.D. FM21ATEX0071X

Certificate I.L	D. FM21ATE		
<u>Drawing No.</u> 10000012327	Revision Level 5	<u>Drawing Title</u> Commercial Specification, Window, Sapphire, 29.99	<u>Last Report</u> 457661
10000012485	4	Detector, Pyroelectric, Reference	449063
10000012486	4	Detector, Pyroelectric, Analytical	449063
10000012677	3	Mirror, electro-formed, IRIS	449063
10000013620	2	Commercial Specification, O-Ring: Marco Rubber & Plastics Inc #Y1000-015	449063
10000013621	2	Commercial Specification, O-Ring: Marco Rubber & Plastics Inc #Y1000-021	449063
10000013622	2	Commercial Specification, O-Ring: Marco Rubber & Plastics Inc #Y1000-137	449063
10000014788	1	Guard, Environmental, Ultima X IR	449063
10000017045	0	Separator, Feed Thru wire, Ultima XI	449063
10000017493	2	Fixture, Lower Assembly, Ultima XI	449063
10000017784	3	Ring, Retaining, Window, Loose, Ultima XI	449063
10000017954	3	Fixture, Lower, Machined, Ultima XI	449063
10047990	4	Fixture, Feedthru, Ultima XI	449063
10071676	1	Commercial Specification, M25 Plug:Pipe, Brass, Nickle Plated (Redapt / HLS)	449063
10162584	1	X5000 Option (Relay) Board, PCB	460997
10162585	0	X5000 Option (Relay) Board, PCB Assembly	449063
10163332	3	X5000 Main Board, PCB	460997
10163333	2	X5000 Main Board, PCB Assembly	460997
10164155	0	XIR Plus Power Board, PCB	449063
10164157	0	XIR Plus Power Board, PCB Assembly	449063
10164799	4	X5000 User Interface Board, PCB	RR234893
10164800	3	X5000 User Interface Board, BOM	457661
10166044	4	Wire Harness, Assembly, Ultima XIR Plus	RR234893
10172002	1	XIR Plus Main Board, PCB	449063
10172003	0	XIR Plus Main Board, PCB Assembly	449063
10176109	0	X5000 Junction Box Board, PCB	449063
10176110	2	X5000 Junction Box Board, PCB Assembly	RR234893
10177157	2	X5000 Option (Relay) Board, SMTA	460997
10177160	1	XIR Plus Main Board, SMTA	449063
10177161	2	XIR Plus Power Board, SMTA	449063
10177166	0	X5000 Junction Box Board, SMTA	449063
10177160	0	Englacura Unnar Ultima VID Diva	110000
10177168	2	Enclosure, Upper, Ultima XIR Plus	449063
10177168 10177361	8	Operating Manual, Ultima X5000 Gas Monitor	449063 RR234893
10177361	8	Operating Manual, Ultima X5000 Gas Monitor	RR234893
10177361 10177819	8 1	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM	RR234893 449063
10177361 10177819 10179953	8 1 0	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415	RR234893 449063 449063
10177361 10177819 10179953 10182779	8 1 0 9	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361	RR234893 449063 449063 RR234893
10177361 10177819 10179953 10182779 10206281	8 1 0 9	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM	RR234893 449063 449063 RR234893 457661
10177361 10177819 10179953 10182779 10206281 324117	8 1 0 9 1	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM Glass Window, Ultima X5000/S5000	RR234893 449063 449063 RR234893 457661 449063
10177361 10177819 10179953 10182779 10206281 324117 486482	8 1 0 9 1 0 4 2	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM Glass Window, Ultima X5000/S5000 CUP:Porous, 60 MICRON	RR234893 449063 449063 RR234893 457661 449063
10177361 10177819 10179953 10182779 10206281 324117 486482 5-5088-1	8 1 0 9 1 0 4 2 0 2	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM Glass Window, Ultima X5000/S5000 CUP:Porous, 60 MICRON X5000 User Interface Board, SMTA	RR234893 449063 449063 RR234893 457661 449063 449063 RR234893
10177361 10177819 10179953 10182779 10206281 324117 486482 5-5088-1 7-7195-1	8 1 0 9 1 0 4 2	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM Glass Window, Ultima X5000/S5000 CUP:Porous, 60 MICRON X5000 User Interface Board, SMTA X5000 cover assembly	RR234893 449063 449063 RR234893 457661 449063 449063 RR234893 449063
10177361 10177819 10179953 10182779 10206281 324117 486482 5-5088-1 7-7195-1	8 1 0 9 1 0 4 2 0 2	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM Glass Window, Ultima X5000/S5000 CUP:Porous, 60 MICRON X5000 User Interface Board, SMTA X5000 cover assembly X5000 User Interface Board, PCB Assembly	RR234893 449063 449063 RR234893 457661 449063 449063 RR234893 449063 RR234893
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10177361 10177819 10179953 10182779 10206281 324117 486482 5-5088-1 7-7195-1 7-7206-1 7-7207-1 7-7213-1 7-7296-1 A-X5000 SK3068-1124 SK3068-1124 SK3068-1131 SK3068-1131 SK3068-1148 SK3073-1134 SK3073-1143	8 1 0 9 1 1 0 4 4 2 2 0 0 2 6 6 3 3 1 6 6 6 3 3 2 1 2 5 5 2 2 2 1 1 0 0 2 2	Operating Manual, Ultima X5000 Gas Monitor Digital Sensor BOM Commercial Specification, Brady Label #Y4280415 Addendum to Ultima X5000 Gas Monitoring System Operating Manual 10177361 JB5000 BOM Glass Window, Ultima X5000/S5000 CUP:Porous, 60 MICRON X5000 User Interface Board, SMTA X5000 User Interface Board, PCB Assembly Assy, X5000 and X5000 Junction Box, Board Stack Sensor, Ultima XIR Plus Detector Block Assy, XIR Plus XCELL Sensor Assembly, Ultima X5000 X5000 Main Board, SMTA Coded Configuration Matrix, Ultima X5000 Software release drawing, XIR Plus Firmware, X5000, Control Firmware, NGTP ASIC Sensor Firmware, NGTP, Lifehealth Firmware, NGTP Lifehealth with Diffusion Supervision X5000 Option (Relay) Board, Schematic XIR Plus Main Board, Schematic	RR234893 449063 449063 RR234893 457661 449063 449063 RR234893 449063 RR234893 457661 449063 RR234893 RR234893 457661 449063 460997 449063 449063 449063 449063 449063 449063 449063 449063 449063 457661 449063 460997
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SK3098-1467	6/11/2020	JB5000 JUNCTION BOX, APPROVAL DRAWING, ELECTRONICS, CSA	457661
SK3098-1483	2	X5000 Series Gas Detector FM Markings Approval Drawing	RR234893
SP10166044	0	Engineering Specification for Preparation and Application of EPOCAP 45137A & 55137B Potting Compound	449063

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