Addendum A

Standards Compliance Certifications for Altair 4XR Operating Manual

Order No.: 10175895/13

Print Spec: 10000005389 (EO)

CR: 800000071476

1 Device Cleaning

Cleaning of the apparatus is recommended following environmental exposure, to ensure optimal performance:

- **Routine Cleaning:** Clean the exterior of the device regularly using only a damp cloth. Do not use cleaning agents, as many contain silicone, which will damage the combustible sensor (if applicable).
- **Dust and Dirt Exposure:** Use a dry, soft bristled brush to remove any dust or dirt that has accumulated on the apparatus, especially at the sensor openings. If there is a buildup of dust or dirt particles remaining in the sensor area after brushing, use a vacuum to remove remaining particles, but maintain at least a 1/2 inch (1,2 cm) gap between the vacuum inlet and the apparatus.
- **Chemical Exposure:** If the equipment is likely to come into contact with aggressive substances, e.g. acidic liquids or gases that may attack metals or solvents that may affect polymeric materials, then it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected thus ensuring that the type of protection is not compromised.
- **Water Exposure:** If the device is exposed to water, turn the device sensor side down and gently shake water off the sensor area. Any remaining water can be removed with a clean dry cloth. In the event that the device is immersed in water, allow the sensor inlets time to dry before retesting and returning to service. Drying time is dependent upon humidity conditions and the duration of immersion.

2 Bluetooth SIG Statement

The design is listed as "Industrial Portable Gas Monitoring Equipment", Declaration ID D026835
https://www.bluetooth.org/tpg/QLI_viewQDL.cfm?qid=26835

Panasonic Bluetooth radio module certified to:

- FCC Part 15, FCC Identifier - T7V1316
- Industry Canada compliance to RSS-210. Industry Canada license - 216Q-1316

3 Special Conditions for Safe Usage

⚠ WARNING!

- In the event of combustible sensor overrange, the device will enter a Lock Alarm state, which must be reset in a fresh air environment. To reset this alarm, cycle power off and on, in fresh air. Keep the device in the fresh air environment until LEL or CH4 readings have stabilized and then follow the Fresh Air Setup and Zero Calibration instructions contained in the user instruction manual.
- The RF radiation power used to activate the RFID tag antenna shall not exceed 6 Watts for EPL Group I applications or 2 Watts for EPL Group IIC applications.

Failure to follow these warnings can result in serious personal injury or death.

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4 Certifications and Markings

See device label on your specific device, for applicable certification markings. The following label examples are for demonstration purposes only and may not accurately depict the current product certification status.

Information common to all labels:

Manufacturer:	MSA THE SAFETY COMPANY 1000 Cranberry Woods Drive Cranberry Township, PA 16066
Product:	ALTAIR 4XR Gas Detector
Serial Number and Date:	XXXXXX = Serial Number DDDDD = Date Code

4.1 North America (USA and Canada) Certifications and Markings

Agency: CSA Group

Permitted Hazardous Locations

USA

Class I, Division 1, Groups A, B, C, & D, Class II, Division 1 Groups E, F, & G Class III; T3

Class I, Zone 0, AEx ia IIC T3 Ga (Zone 0) - Without XCell Ex Sensor

Class I, Zone 0, AEx da ia IIC T3 Ga (Zone 0) - With XCell Ex Sensor

CANADA

Class I, Division 1, Groups A, B, C, & D, Class II, Division 1 Groups E, F, & G, Class III; T3

Ex ia IIC T3 Ga (Zone 0) - Without XCell Ex Sensor

Ex da ia IIC T3 Ga (Zone 0) - With XCell Ex Sensor

USA and CANADA

Ambient Temperature Range: -40 °C ≤ Ta ≤ 60 °C, Temperature code: T3

Ambient Temperature Range (Combustible Gas Performance): -20 °C ≤ Ta ≤ 60 °C

Pollution Degree: 2, Altitude: 2000 m

Certifications and Markings

Markings contained on label:



⚠ WARNING!

- Substitution of components may impair intrinsic safety.
- Batteries must only be charged in an area known to be nonhazardous.
- Understand the manual before operating.
- Only the combustible gas detection portion of this instrument has been assessed for performance.
- Not performance approved for CL II, CL III. Sensor may become clogged and not detect gas or warn user of inability.
- A combustible gas reading of “XXX” LEL or “XXX” CH_4 indicates the atmosphere is above 100% LEL or 5.00% vol CH_4 respectively, and an explosion hazard exists. Move away from contaminated area immediately

Failure to follow these warnings can result in serious personal injury or death.

⚠ WARNING!

- La substitution de composants peut compromettre la sécurité intrinsèque.
- Les piles doivent être rechargées uniquement dans une zone reconnue comme non dangereuse.
- Lire attentivement les instructions avant de mettre en marche.
- Deulement la partie de détection de gaz combustible de cet instrument a été évaluée pour performance.
- Une valeur de gaz combustible de "XXX" ou "XXX" CH_4 indique que l'atmosphère est supérieure à 100 % de la LIE ou 5,00 % vol. CH_4 respectivement, et qu'il existe un risque d'explosion. Immédiatement évacuercla zone contaminée.

Le non-respect des avertissements précités peut entraîner des blessures graves ou mortelles.

Intrinsic Safety Standards:

- CSA C22.2 No. 60079-11 and
- UL 913

Performance Standards:

- CSA C22.2 NO. 60079-29-1 and
- ANSI/ISA 60079-29-1
- Gas Measurement range: 0 - 100% LEL Methane

4.2 ATEX and UKEX Certifications and Markings

EU-Type Examination Certificate:
Sira 16ATEX2292

UKEX-Type Examination Certificate:
CSAE 22UKEX1160



Applicable Safety Standards:

- EN IEC 60079-0:2018,
- EN 60079-1:2014, and
- EN 60079-11:2012

Ambient Temperature Range:
(-40 °C ≤ T_a ≤ 60 °C), Temperature code: T3

Combustible Performance Standards:

- EN 60079-29-1:2016

Ambient Temperature Range (Combustible Gas Performance):
-20 °C ≤ T_a ≤ 60 °C

NOTE 1: EN 60079-29-1 Combustible Gas Performance testing is for Group II only

NOTE 2: General purpose flammable gas detector. Specific gases tested: Methane, Propane; Other gases: n-Pentane

NOTE 3: Field Calibration Kit not performance approved.

Certificate No. FTZU 16 E 0007:

Toxic Performance Standards:

- EN IEC 62990-1:2022+A11:2022 (CO and H_2S)

NOTE: Evaluated as type SM (Safety Monitoring)

Ambient Temperature Range (H2S): -20 °C ≤ T_a ≤ 60 °C

Ambient Temperature Range (CO): -15 °C ≤ T_a ≤ 50 °C

Oxygen Performance Standards:

- EN 50104:2019+A1:2023

Ambient Temperature Range (Oxygen Gas Performance): -20 °C ≤ T_a ≤ 60 °C

4.3 MED Certifications and Markings

Certificate No. 213.054

Specified Standards:

EN 60945:2002 incl. IEC 60945 Corr. 1:2008, IEC 60092-504:2016*, IEC 60533:2015*

Category 1: (safe area): EN 50104:2010, EN 60079-29-1:2016,

Category 2: (explosive gas atmospheres): EN 50104:2010, EN 60079-29-1:2016, EN 60079-0:2018, EN 60079-1:2014, EN 60079-10-1:2015*, EN 60079-11:2012, EN 60079-15:2010*, EN 60079-26:2015*

(*) = Testing Standards not applicable

4.4 IEC Certifications and Markings

Certificate Number: IECEx SIR 16.0096

Applied Standards:

- IEC 60079-0 Edition 7.0,
- IEC 60079-1 Edition 7.0, and
- IEC 60079-11 Edition 6.0
- IEC 60079-26 Edition 3.0

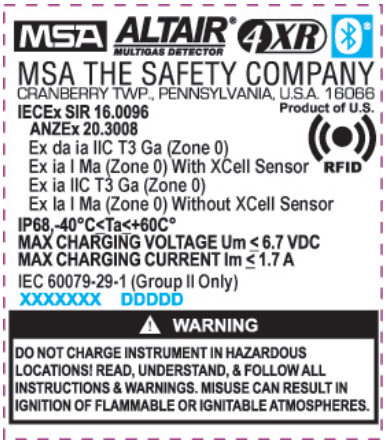
Ambient Temperature Range: -40 °C ≤ T_a ≤ 60 °C, Temperature code: T3

Combustible Performance Standards:

- IEC 60079-29-1 Edition 1

NOTE: IEC 60079-29-1 Combustible Gas Performance testing is for Group II only.

Ambient Temperature Range (Combustible Gas Performance):
-20 °C ≤_ T_a ≤ 60 °C



Australian Certification

Certificate Number: ANZEx20.3008

Brazil (InMetro) Certifications and Markings

Certification Numbers: NCC 17.0186, NCC 23.0099

Safety Standards:

- ABNT NBR IEC 60079-0,
- ABNT NBR IEC 60079-1
- ABNT NBR IEC 60079-11
- ABNT NBR IEC 60079-26

Marking:

Ex ia IIC T3 Ga (sem sensor XCell)

Ex da ia IIC T3 Ga (com sensor XCell)

(-40 °C ≤ T_{amb} ≤ 60 °C)





ANATEL
06077-16-02640

"Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

Para maiores informações, consulte o site da ANATEL (www.anatel.gov.br)

4.5 China Certifications and Markings

EX
Certificate Number: CE24.1399X

Safety Standards:

- GB/T3836.1-2021
- GB/T 3836.2-2021
- GB/T 3836.4-2021

Marking:
Ex ia IIC T3 Ga
Ex da ia IIC T3 Ga
(-40 °C ≤ T_{amb} ≤ 60 °C)



CPA
JJF1421-2013 (CO)
JJF1364-2012 (SO_2)
JJF1368-2012 (CH_4)
JJF1363-2012 (H_2S)

4.6 Russia Certifications and Markings

EAC

EX



Certificate Number: RU C-US.AA87.B.00784

Serial Number: 0606439

Safety Regulation:

- TR CU 012/2011

"On Safety of equipment for working in explosive hazardous environments."

Safety Standards

- GOST 31610.0-2014
- GOST IEC 60079-1-2013
- GOST 31610.11-2014

Marking:

- Ex ia IIC T4 Ga (without combustible sensor)
- Ex da ia IIC T4 Ga (with combustible sensor)

(-40 °C ≤ T_{amb} ≤ 60 °C)

EMC

Registration Number: RU Ɗ-US.ME61.B.00773

Safety Regulation:

- TR CU 020/2011 "Electromagnetic Compatibility of Technical Equipment"

Performance

Certificate Number: US.C.31.001.A No 70146

Registration Number: 71431-18