Addendum A

Standards Compliance Certifications For Altair® 4XR Operating Manual
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.

- **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.

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

Special Conditions for Safe Usage

**WARNING!**

**Special Conditions for Safe Usage**

- 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.
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 USA

Product: ALTAIR 4XR Gas Detector

Serial Number and Date: XXXXXX = Serial Number
DDDDD = Date Code

North American (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; T4
Class I, Zone 0, AEx ia IIC T4 Ga (Zone 0) - Without XCell Ex Sensor
Class I, Zone 0, AEx da ia IIC T4 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; T4
Ex ia IIC T4 Ga (Zone 0) - Without XCell Ex Sensor
Ex da ia IIC T4 Ga (Zone 0) - With XCell Ex Sensor

USA and CANADA
Ambient Temperature Range: -40 °C ≤ Ta ≤ 60 °C, Temperature code: T4
Ambient Temperature Range (Combustible Gas Performance): -20 °C ≤ Ta ≤ 54 °C
Pollution Degree: 2, Altitude: 2000 m
Certifications and Markings

Markings contained on label:

WARNING / AVERTISSEMENT

READ AND UNDERSTAND OPERATING MANUAL PN 10175095 AND ADDENDUM TO MANUAL PN 10175095 AND FOLLOW ALL INSTRUCTIONS AND WARNINGS. MISUSE CAN RESULT IN INJURIES OR EXPLOSIONS.

Intrinsic Safety Standards:
• CSA C22.2 No. 157,
• UL 913, and
• ANSI/ISA 60079-29-1

Gas measurement range: 0 - 100% LEL Methane

WARNING : AVERTISSEMENT

SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY
USE ONLY BATTERY PACK P/N 10083913
BATTERIES MUST ONLY BE CHANGED OR CHARGED IN AN AREA KNOWN TO BE NONHAZARDOUS
UNDERSTAND 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

Intrinsic Safety Standards:
• CSA C22.2 No. 157,
• UL 913, and

Performance Standards:
• CSA C22.2 No. 152, and
• ANSI/ISA 60079-29-1
• Gas measurement range: 0 - 100% LEL Methane
ATEX Certifications and Markings

EC-Type Examination Certificate:
Sira 16ATEX2292

Intrinsic Safety Standards:
- EN 60079-0:2012/A11:2013,
- EN 60079-1:2014, and
- EN 60079-11:2012

Ambient Temperature Range:
\[-40 \, ^\circ\text{C} \leq T_a \leq 60 \, ^\circ\text{C}\], Temperature code: T4

Combustible Performance Standards:
- EN 60079-29-1:2016

Ambient Temperature Range (Combustible Gas Performance):
\[-20 \, ^\circ\text{C} \leq T_a \leq 54 \, ^\circ\text{C}\]

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

Toxic Performance Standards:
- EN 45544-1:2015, EN 45544-3 (H2S)

Ambient Temperature Range (Toxic Gas Performance):
\[-20 \, ^\circ\text{C} \leq T_a \leq 60 \, ^\circ\text{C}\]

**NOTE:** TWA function for H2S is not supported
- EN 45544-1:2015, EN 45544-2:2015 (CO)

Ambient Temperature Range (Toxic Gas Performance):
\[-20 \, ^\circ\text{C} \leq T_a \leq 50 \, ^\circ\text{C}\]

Oxygen Performance Standards:
- EN 50104:2010 (O2)

Ambient Temperature Range (Oxygen Gas Performance):
\[-20 \, ^\circ\text{C} \leq T_a \leq 60 \, ^\circ\text{C}\]
IEC Certifications and Markings

Certificate Number: IECEx SIR 16.0096
Intrinsic Safety Standards:
• IEC 60079-0 Edition 6.0,
• IEC 60079-1 Edition 7.0, and
• IEC 60079-11 Edition 6.0
Ambient Temperature Range:
-40 °C ≤ TA ≤ 60 °C, Temperature code: T4

Combustible Performance Standards:
• IEC 60079-29-1 Edition 1.0
NOTE: EN 60079-29-1 Combustible Gas Performance testing is for Group II only
Ambient Temperature Range (Combustible Gas Performance): -20 °C ≤ TA ≤ 54 °C

Brazil (InMetro) Certifications and Markings
Certificate Number: NCC 17.0186 Intrinsic Safety Standards:
• ABNT NBR IEC 60079-0,
• ABNT NBR IEC 60079-1
• ABNT NBR IEC 60079-11
Marking:
Ex ia IIC T4 Ga (sem sensor XCell)
Ex da ia IIC T4 Ga (com sensor XCell)
(- 40 °C ≤ Tamb ≤ +60 °C)

"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)
For local MSA contacts, please visit us at MSAsafety.com

Because every life has a purpose...