



Operating Manual  
**ALTAIR® 4XR**  
Multigas Detector



Order No.: 10175896/08

Print Spec: 10000005389 (EO)

CR: 800000057847

## 6 Technical Data

<b>Weight</b>	7.9 oz./224 g (device with battery and clip)
<b>Dimensions (L x W x H)</b>	4.4 x 3.00 x 1.37 inches/112 x 76 x 33 mm – without fastening clip
<b>Alarms</b>	Four gas alarm LEDs, a charge status LED, an audible alarm and a vibrating alarm
<b>Volume of audible alarm</b>	95 dBA at 30 cm typical
<b>Display</b>	LCD display
<b>Battery type</b>	Rechargeable Li polymer battery. Must not be charged in Ex area.
<b>Device run time (Bluetooth OFF)</b>	24 hours at 25 °C (77 °F)
<b>Charging time</b>	≤ 4 hours The maximum safe area charging voltage $U_m = 6.7$ VDC
<b>Warm up time</b>	2 min
<b>Temperature range</b>	14 to 104 °F (-10 to 40 °C) Normal operating range -40 to 140 °F (-40 to 60 °C) Extended operating range 50 to 95 °F (10 to 35 °C) While charging battery -40 to +140 °F (-40 to 60 °C) Intrinsic safety ambient temperature range (ATEX, IEC) -40 to +129 °F (-40 to 54 °C) Intrinsic safety ambient temperature range (CSA, ETL)
<b>Humidity range</b>	15 % – 90 % relative humidity, non-condensing, 5 % – 95 % RH intermittent
<b>Atmospheric pressure range</b>	800 to 1200 mbar
<b>Ingress protection</b>	IP 68 (2 meters for 45 minutes)
<b>Measuring methods</b>	Combustible gases: Catalytic sensor Oxygen: Electrochemical sensor Toxic gases: Electrochemical sensor

	<b>Combustible</b>	<b>O<sub>2</sub>*</b>	<b>CO</b>	<b>H<sub>2</sub>S</b>
<b>Measuring range</b>	0-100% LEL	0-30% Vol.	0-1999 ppm	0-200 ppm
	0-5.00% Vol.CH <sub>4</sub>		0-1999 mg/m <sup>3</sup>	0-284 mg/m <sup>3</sup>
	<b>H<sub>2</sub>S-LC</b>	<b>NO<sub>2</sub></b>	<b>CO-H<sub>2</sub></b>	<b>SO<sub>2</sub></b>
	0-100 ppm	0-50 ppm	0-1999 ppm	0-20 ppm

\* Certified for 0 - 25 vol.% O<sub>2</sub>

The technical and performance specifications for the specialized EX-H and EX-M sensor are the same as for the standard EX sensor.