

**Operating Manual** 

# ALTAIR 5 with WirelessUSB module ALTAIR 5X with WirelessUSB module

**Supplementary Information** 





Order No. 10102623/01

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### MSA

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### 1 Safety Regulations

### 1.1 Correct Use

TheALTAIR 5/ALTAIR 5X WirelessUSB module is used for communication with other devices, e.g. *alphaSCOUT*.

The ALTAIR 5/ALTAIR 5X Multigas Detector is intended for use by trained and qualified personnel. It is designed to be used when performing a hazard assessment to:

- Assess potential worker exposure to combustible and toxic gases and vapours as well as low level of oxygen.
- Determine the appropriate gas and vapour monitoring needed for a workplace.

It is imperative that this operating manual be read and observed when using the product. In particular, the safety instructions, as well as the information for the use and operation of the product, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for a safe use.

## $\wedge$

#### Danger!

This product is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the product and to commissioning work that has not been carried out by MSA or authorised persons.

### 1.2 Liability Information

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

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### 2 Description

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This manual only contains information regarding the WirelessUSB module.

Refer to the Operating Manuals of ALTAIR 5/ALTAIR 5X for information on all other functions of the device.

### ALTAIR 5



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### ALTAIR 5X



nt view		
VirelessUSB	4	
	5	

3 ON/OFF Button

5	
6	

- ▲ Button
- Belt Clip
- WirelessUSB module 6

### 3 Operation

### 3.1 Measurement Mode [Normal Operation]

The following options pages can be executed from the Normal Operation screen:

BUMP page [ALTAIR 5X only]		This page allows user to perform a Bump Test on in- stalled sensors
Peak Page*		This page shows the peak readings for all sensors.
Min Page		This page shows the minimum readings for the oxy- gen sensor.
STEL Page*		This page shows the calculated STEL readings of the instrument.
TWA Page		This page shows the calculated TWA readings of the instrument.
Date Page		This page shows actual date settings of the instru- ment.
Last Cal Date		This page shows the date of the last calibration.
Cal Due*		This page shows the set date for the next calibration.
Motion Alert	+	This page allows the Motion Alert Feature to be activated or deactivated.
Wireless		This page allows the Wireless communication to be activated or deactivated.

\* The display of these pages can be de-activated through MSA Link software

Using the three instrument buttons, the user can navigate through each sub-menu in a top/down sequence.

Refer to the Operating Manual of ALTAIR 5/ALTAIR 5X and additional information in chapter 5 [appendix] for detailed instructions on navigating through these screens.

### 3.2 Activation



Fig. 3 Switch Wireless ON / OFF

- (1) To activate the WirelessUSB module, follow the menu sequence described in chapter 5.
  - ▷ The WirelessUSB module can be switched ON or OFF.
- (2) Switch the WirelessUSB module ON.
  - ▷ The following options are shown below the antenna symbol:
  - Retry Try again to connect to the last partner, e.g. partner is activated to pair New Connect to a new partner
  - Abort Cancel operation and return to main menu

The symbol will have different colours for different connection states:

Status	Indication	Symbol
WirelessUSB module available	strength bars visible [otherwise no symbol with strength bars on display]	
No connection	black strength bars	
Pairing mode [ready for pairing]	blinking black strength bars	
Connection estab- lished and data ex- change working	green strength bars	al
Connection lost	blinking red strength bars	al

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### 3.3 Startup

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The product recognises an attached WirelessUSB module automatically. During the power-up sequence, the product will pair automatically with the last connected product.



To pair two products, the pairing mode must be activated for all products. Otherwise no partner can be found.



#### Fig. 4 Display with antenna symbol

The strength bars in the status bar of the colour display are used for displaying the availability of a WirelessUSB module. During the startup sequence the product tries to pair with the last partner. The strength bars are blinking. After the Fresh Air Setup [FAS] the antenna symbol will be displayed.



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## 4 Pairing



For further information see Operating Manual of the respective products.

### 4.1 alphaSCOUT

### Pairing with the alphaSCOUT

- (1) Make sure that the *alphaSCOUT* is already switched ON.
  - If the alphaSCOUT is switched OFF the alphaSCOUT will start pairing with an alphaMITTER and not with an ALTAIR 5 WirelessUSB.
- (2) Push the green button on the *alphaSCOUT* for approx. 3 seconds.
  - ▷ The *alphaSCOUT* is ready for pairing with an ALTAIR 5 WirelessUSB.
  - ▷ On the display the message "DATA" blinks.
  - ▷ A short signal sounds.
  - The "bar" symbol is shown when the communication between *alphaSCOUT* and *alphaMITTER* is established. The "bar" symbol is not affected by pairing devices [such as *alphaHUD* and ALTAIR 5 WirelessUSB].
  - When the pairing of the ALTAIR 5 WirelessUSB module and the alphaSCOUT was successful the "DATA" symbol stops blinking and remains static.

The unit is now paired with this product. If this combination is to be kept, during the next operation only the valve on the compressed air cylinder has to be opened.

When replacing the products, the pairing procedure must be carried out again in order to clearly allocate the units to each other.

## Status / Alarm LED display Visual representation Gas alert 1 Radio status LED flashing orange: - all gas alarms [low/high], sensor failure, pump blocked Image: Comparison of the presentation Gas alert 2 Radio status LED flashing yellow: - battery warning Image: Comparison of the presentation

### 4.2 alphaHUD Alarm Status

### 4.3 TecBOS.solutions

The user interface of the monitoring software is self-explanatory.

The user interface is subdivided into three main areas:

- Log in area for users with *alphaSCOUT*,
- Team overview,
- Detailed display of pressure, remaining service time and alarm, and the menu bar [→ Fig. 5].



Fig. 5 User interface telemetry monitoring software

- 1 Menu bar
- 2 Team overview
- 3 Log in area for users with alphaSCOUT
- 4 Detailed display [pressure, remaining service time, alarm]



### Integration into the Monitoring & Alarm System



The software only displays the data of the WirelessUSB. There is no interaction between software and WirelessUSB module.

The WirelessUSB module enables the integration of ALTAIR 5/ALTAIR 5X into the *alpha* Personal Network. You can monitor people using breathing apparatus and portable gas detection equipment while sending information to a central control station.

If a WirelessUSB module is connected to an *alphaSCOUT*, an icon of the WirelessUSB module is shown near to the helmet [ $\rightarrow$  Fig. 5].



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### Default Settings for ALTAIR 5/ALTAIR 5X WirelessUSB

m Einstellungen Atemschutzuberwachung	
Enstellungen Alarme	
Einstellungen	
Trupp Stärke Einheit Druck I con Der runkabuturh	
S Mann 6 Mann     bar psi     T     Alarmschwelle Druck     60	
La Kurzzeituhr anzeigen Restzeitalarm Prefix AS-Einsatznummer	
Kurzzeituhr Zeit (minuten ) 15 Restzeit in Minuten 10	
r Faibe	
Neuer Mann	
Flasche voll	
Zurücksetzen	
Einzelevakuierung zulassen	
Vorgabe Flaschendruck	
Vorgabe Flaschendruck	
ALTAIR 5	
Alammenster Phontaten Anzeige	
ein Fenster für alle Geräte Man down 2 Batterie 3 nur bei Alarmen / Störungen und Quittierung	
je Ereignis ein Fenster Druck 🕘 Störung 🖲 nur bei Alarmen / Störungen, Quittierung und Aufhebung	
☑ Netzwerkfunktionalitäten aktivieren	

Fig. 6 Default settings

Appendix

### 5 Appendix

### 5.1 Menu Sequence from Main Page



Fig. 7 Turn wireless ON/OFF

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### 5.2 Menu Sequence Startup



Fig. 8 Startup ALTAIR 5/ALTAIR 5X WirelessUSB

### 5.3 Menu Sequence Pairing Procedure



Fig. 9 WirelessUSB pairing procedure

### 5.4 Sequence of lost WirelessUSB Connection

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Fig. 10 Handling of lost WirelessUSB connection

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