

The AirWatch is your safe area solution for the monitoring of various gases. Based on the measurement values and alarms, equipment is switched on or off, data is logged and optionally employees are remotely informed of the gas concentrations present.

The AirWatch is a safe area monitor with pump, controller, alarm and switch. It can switch on a wide variety of equipment in the event of a gas alarm, from generators to breathing air units and power supplies. With the optional wireless function, you can also view monitor several AirWatches. The data is stored on the PC/laptop or on an SD card in the device itself, with real-time information giving a clear picture of the different locations. Many configurations are possible, so the AirWatch can be used very flexibly, either in standalone mode or as part of a complete system.



## Key Features

- Functions in standalone mode or as part of a wireless mesh network
- Automatically switches devices on/off with 3 built-in relays
- Developed for demanding environments
- Can be used indoor and outdoor
- Flexible and programmable
- Built-in pump
- Backup battery included
- Settable alarms
- Beacon Sounder option
- Receiver + software option
- Repeaters available
- Wireless option up to 300 meters

## Application Examples

- Excellent for temporary monitoring where fixed gas detection is needed.
- Monitoring of confined spaces and areas
- Cleaning activities
- Water purification
- Petrochemical industry
- Shipyards
- Shutdown monitoring
- Transportation, distribution, offloading
- (Container) fumigation
- Hospitals
- Construction and earthmoving


## GENERAL SPECIFICATIONS

<b>Dimensions</b>	280 x 165 x 137 mm
<b>Weight</b>	2.0 kg
<b>Fixation</b>	Standard back plate with 2 magnets
<b>Sensors (see sensor specifications)</b>	4 gases, 1 high power socket
<b>Visible alarm</b>	Green LED for SAFE indication Red LED for ALARM indication Optional 107 dB beacon sounder (item no: AIR-BEAC-010)
<b>System communication</b>	Stand-alone via cable type 1 or 2, RS 485 or Wireless via 2.4 GHz ISM band, complies with the IEEE 802.15.4 standard and 3/4G with the WatchGas remote online platform
<b>Range wireless</b>	300 meters (with line of sight) (2.4 GHz)
<b>Communication</b>	Max. 50 remote detectors in one system
<b>Keys and display</b>	2 Magnet reed contact switches LCD text screen with 2 lines and back-ground lighting
<b>Sampling pump</b>	Built-in pump
<b>Energy supply</b>	9 - 36V DC. Backup battery is basic included Battery run-on time max. 60 min.
<b>Potential free contact</b>	Three free programmable contacts rated Maximum 24V DC 2A
<b>Operation temperature</b>	-20°C to 45°C
<b>Humidity</b>	0 - 95% RH, non-condensing
<b>Data logging</b>	SD Card logging
<b>IP-Rating</b>	IP65

### AirWatch connection cable type 1.

#### Amphenol female 7 pins molex

Earth	DC negative
1	DC positive 9/36VDC
2	Com
3	NC
4	NO





#### Cabel & Wiringnumbers

Y/G	DC negative
1	DC positive 9/36VDC
2	Com
3	NO
4	NC



#### Amphenol male 6 pins


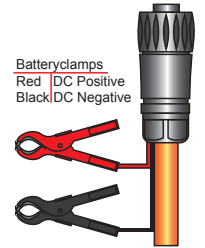
A	DC positive 9/36VDC
B	DC negative
C	
D	NO
E	Com
F	NC



### AirWatch connection cable type 2.

#### Amphenol female 7 pins molex

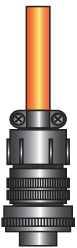
Earth	DC negative
1	DC positive 9/36VDC
2	Com
3	NC
4	NO

Battery clamps  
Red DC Positive  
Black DC Negative

#### Cabel & Wiringnumbers

Y/G	DC negative
1	DC positive 9/36VDC
2	Com
3	NO
4	NC

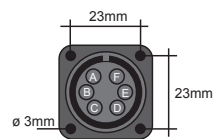


#### Amphenol female 3 pins

A	Com
B	NO
C	NC



### AirWatch chassisconnector



#### Connector female 6 pins

A	DC positive 9/36VDC
B	DC negative
C	
D	NO
E	Com
F	NC

### Connector dummycaps. 3 female & 6 male pins



#### Amphenol male 6 pins

A	
B	
C	
D	
E	Bridged
F	Bridged

#### Amphenol female 3 pins

A	Bridged
B	
C	Bridged

## Airwatch Pump Specifications

<b>Operating flow</b>	400 - 800 ml/min with adjustable upper and lower limit flow alarm
<b>Free flow</b>	1900 ml/min
<b>Flow rate at 100/-100 mbar</b>	920/850 ml/min
<b>Max. pressure</b>	400 mbar
<b>Max. vacuum</b>	-400 mbar
<b>Max. Sampling hose</b>	50m.

Also available with optional  
Beacon Sounder



## SENSOR SPECIFICATIONS

Gas	Range	Resolution	Response $t_{90}$
CO	0-2000 ppm	1 ppm	< 30s
CO LR	0-200 ppm	20 ppb	< 20s
CO HR	0-10000 ppm	5 ppm	< 50s
CO comp. H <sub>2</sub>	0-2000 ppm	1 ppm	< 30s
H <sub>2</sub> S	0-100 ppm	0.1 ppm	< 30s
H <sub>2</sub> S HR	0-2000 ppm	1 ppm	< 25s
SO <sub>2</sub>	0-50 ppm	0.1 ppm	< 35s
NH <sub>3</sub>	0-100 ppm	0.1 ppm	< 80s
HCN	0-100 ppm	0.1 ppm	< 70s
PH <sub>3</sub>	0-10 ppm / 0-2000 ppm	0.01 ppm	< 60s
CL <sub>2</sub>	0-50 ppm	0.01 ppm	< 60s
NO <sub>2</sub>	0-20 ppm	0.01 ppm	< 50s
NO	0-250 ppm	0.2 ppm	< 45s
LEL-Cat	0-100%	1%	<10s for CH <sub>4</sub>
LEL-NDIR	0-100%	1%	<10/30s CH <sub>4</sub>
CO <sub>2</sub> -NDIR-LR	0-10000 ppm	10 ppm	<30s
CO <sub>2</sub> -NDIR	0-5%	0.01%	<30s
CO <sub>2</sub> -NDIR HR	0-100%	0.1%	<30s
O <sub>2</sub>	0-25%	0.01%	<15s
PH <sub>3</sub> -HR *	0- 2000ppm	1ppm	Response unknown
SO <sub>2</sub> -LR	0-50ppm	0.01ppm	<30s
THT	0-50mg <sup>3</sup>	0.3mg <sup>3</sup>	<60s
PID	0-20ppm	0.01ppm	<5s
PID	0-1000ppm	0.2 ppm	<3s
PID	0-10000ppm	2ppm	<3s
H <sub>2</sub> *	0-2000ppm	1 ppm	<35s
ETO*	0-100ppm	1ppm	<300s

Check AirWatch sensor specification for detailed sensor information.

\*For PH<sub>3</sub> HR, H<sub>2</sub>, ETO, please contact for availability.