

Types of Alarms

The alarm management system differentiates between different priorities:

Notice	green background	no audible signal
Low priority	yellow background	single audible signal
Medium priority	red background	three consecutive beeps at 15-second intervals and with increasing volume

The alarm message is displayed in the lower part of the screen. An alarm condition must be present for at least 2 seconds for the alarm message to be displayed.

The AquaVENT[®] FD140 distinguishes between patient, device, and FiO₂ alarms.

Patient alarms:

Patient alarms include all alarms triggered by the patient. They can occur only during therapy. At the start of therapy and after a change of the flow value, all patient alarms except for 'P limit' are deactivated for 60 seconds.

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No.	Message	Trigger condition	Info	Corrective measure
-	P min	pressure < set P min alarm limit	-	pressure > set P min alarm limit
-	P max	pressure > set P max alarm limit	in HFOT & in helmet CPAP modes: alarm after only one second, gas flow reduced (1 l/min)	pressure < set P max alarm limit
-	Apnoea	no respiration for a period > set apnoea interval	-	respiration detected

No.	Message	Trigger condition	Info	Corrective measure
-	P limit	patient pressure > 25 cmH ₂ O or > CPAP + 10 cmH ₂ O (whichever is higher)	no alarm delay, gas flow reduced (1 l/min)	patient pressure < 25 cmH ₂ O or < CPAP + 10 cmH ₂ O (whichever is higher)
-	F max	respiratory rate > set F max alarm limit	-	respiratory rate < set F max alarm limit

Device alarms:

Device alarms include all alarms triggered by a malfunction of the device. They can occur in standby and during therapy.

No.	Message	Trigger condition	Corrective measure
-	No O2 supply	O ₂ gas supply not connected and set FiO ₂ not 21%	Connect O ₂ gas supply or set FiO ₂ at 21%
-	No Air supply	AIR gas supply not connected and set FiO ₂ not 100%	Connect AIR gas supply or set FiO ₂ at 100%
-	Fan defect	slow fan speed	contact authorised service technician
-	Valve defect	flow detected while valve is deactivated or no flow detected while valve is activated and gas supply is available	contact authorised service technician
-	O2 sensor	O ₂ sensor defect	contact authorised service technician

No.	Message	Trigger condition	Corrective measure
-	Sensor defect	no measured values from pressure sensors	contact authorised service technician
-	Key/ Touch?	key or touch screen pressed for more than 5 seconds	release key or touch screen
-	Battery still 15 min	battery capacity < 15 min	connect to mains power and charge battery
-	Battery still 5 min	battery capacity < 5 min	connect to mains power and charge battery
-	Battery still 3 min	battery capacity < 3 min	connect to mains power and charge battery
-	Bat discharged Device switches off	battery is discharged	connect to mains power and charge battery
-	Power failure	no connection to mains power	connect to mains power



Warning

Do not use the device when the touch screen fails or does not function properly. Contact an authorised service technician.



Warning

If the device emits a continuous alarm tone, the alarm horn is defective. Do not use the device in this case. Contact an authorised service technician.

FiO₂ alarms:

FiO₂ alarms include all FiO₂-related alarms. They can occur only during therapy. At the start of therapy and after a change of the O₂ concentration, all FiO₂ alarms are deactivated for 60 seconds.

No.	Message	Trigger condition	Corrective measure
-	FiO2 high	measured FiO ₂ is at least 5% higher than the set value	measured FiO ₂ is not at least 5% higher than the set value
-	FiO2 low	measured FiO ₂ is at least 5% below the set value or < 18%	measured FiO ₂ is not at least 5% below the set value and ≥ 18%
-	O ₂ calibration	O ₂ sensor not calibrated	calibrate O ₂ sensor (see page 72 "O ₂ sensor calibration")

As soon as the trigger condition no longer exists, the background changes to the original colour. The alarm message remains on the screen. It can be cleared by pressing the Alarm pause key or by touching the alarm text.

If more than one alarm occurs, they are shown alternately in the lower part of the screen.

A medium priority alarm can be silenced for two minutes with the Alarm pause key. A countdown timer is shown on the screen and the Alarm OFF LED turns yellow.

