

WEINMANN Emergency Medical Technology GmbH + Co. KG PO Box 57 01 53 • 22770 Hamburg • GERMANY

Hamburg, September 2024

Important safety information:

Field Safety Corrective Action on a medical device

Subject: FSCA MMT MMS2 2024-10.01 CO2wCPR

Sender:

WEINMANN Emergency Medical Technology GmbH + Co. KG

Addressee:

Users and operators as well as specialist dealers

Medical devices concerned (trade name and article no. of devices):

This FSCA concerns all WEINMANN MEDUMAT Transport and MEDUMAT Standard² ventilators with CO₂ measurement. These are the following articles:

	MEDUMAT Standard ² with CO ₂	MEDUMAT Transport with CO ₂
	measurement	measurement
Basic devices	WM 28710-02 MEDUMAT Standard ² , ventilator, basic device with CO ₂ measurement	WM 28415 MEDUMAT Transport, ventilator, basic device with CO ₂ measurement
	WM 28710-04 MEDUMAT Standard ² , ventilator, basic device with CO ₂ measurement and compressed gas connection on the rear	

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Center for Production, Logistics, Service WEINMANN Emergency Medical Technology GmbH + Co. KG Siebenstücken 14 • 24558 Henstedt-Ulzburg **GERMANY**

Business Management Dipl.-Volksw. Marc Griefahn Dipl.-Kfm. Philipp Schroeder

Registration Court Hamburg Municipal Court Dept. A # 115967 V.A.T. # DE288367727 WEEE Reg. # DE 47913245

Creditor ID DE35ZZZ00000353971

General Partner WEINMANN Emergency Management GmbH, Hamburg

Registration Court Hamburg Municipal Court Dept. B # 38144

Certified QM System meeting EU 2017/745, Annex IX ISO 9001 + EN ISO 13485

Banking Connections

Deutsche Bank AG Hamburg IBAN DE87 2007 0000 0646 9639 00 SWIFT DEUTDEHH

Hamburger Sparkasse AG IBAN DE44 2005 0550 1032 2626 67 IBAN DE44 2005 0550 SWIFT HASPDEHHXXX

Commerzbank AG Hamburg IBAN DE14 2004 0000 0632 0071 00 SWIFT COBADEHHXXX



ınts	WM 29500 MEDUMAT Standard ² , ventilator with CO ₂ measurement	WM 28400 MEDUMAT Transport, ventilator with CO ₂ measurement
Sales variants	WM 29550 MEDUMAT Standard ² , ventilator with CO ₂ measurement and compressed gas connection on the rear	
vices	WM 28950 MEDUMAT Standard ² loan device with CO ₂ measurement	WM 28615 MEDUMAT Transport loan device, ventilator with CO ₂ measurement
Loan devices	WM 28944 MEDUMAT Standard ² loan device with CO ₂ measurement and compressed gas connection on the rear	

Dear Sir or Madam.

Quality and safety are our top priorities, which is why we want to act consistently and transparently as usual and kindly request that you implement this Field Safety Corrective Action as part of your duty to cooperate in accordance with medical device legislation, so that users can continue to use our products safely on patients.

1. Description of problem and cause:

Chest compressions can lead to high-frequency air movements (typically 100-120/min) at the patient connection opening of the ventilation hose, which is where the gas sample for the etCO₂ measurement is taken. The air movements can be detected by the devices as "pseudo breaths" and may affect the accuracy of the etCO₂ measurement due to their high frequency. This could result in the etCO₂ measurement being erroneously displayed as too low and implausible alarms possibly being triggered.

This issue associated with etCO₂ measurement using the side-stream method is already known on the market. A selection of market observation and academic studies are provided here for your information:

- https://www.sciencedirect.com/science/article/abs/pii/S0300957220302094
- https://www.capnoacademy.com/2018/10/03/rogue-capno-waves-resuscitation-team-notes-unusual-waveform-during-cpr/
- https://www.intechopen.com/chapters/65689
- https://www.researchgate.net/publication/295373123 High Incidence of Chest Compression O scillations Associated With Capnography During Out-of-Hospital Cardiopulmonary Resuscitation

Why is WEINMANN drawing attention to this issue if it is already known on the market?

The importance of CO_2 measurement in resuscitation has increased in recent years, with resuscitation efforts derived from the CO_2 measurement also increasing in importance as a result. In order to avoid potential harm to the patient, we view it as our duty to draw your attention as users of our devices specifically to this et CO_2 measurement issue.

2. What is the risk for the patient?

Erroneously low etCO₂ measurements can lead to incorrect decisions being taken when performing resuscitation accompanied by possible harm to the patient.



3. Action

Please observe the safety information that will be included in the instructions for use of the MEDUMAT Standard² and MEDUMAT Transport ventilators in the future:



Delay in treatment due to abnormal CO_2 measurement during chest compressions!

The device's CO_2 measurement function is **not** designed for the high frequencies (100/min to 120/min) encountered during chest compressions. Chest compression can be detected by the device as high-frequency breathing, which can result in the et CO_2 measurement being erroneously displayed as too low and trigger implausible alarms. This can confuse the user and delay treatment.

- ⇒ Do **not** rely on the etCO₂ measurement as the sole indication for stopping cardiopulmonary resuscitation! Please note: The etCO₂ measurement and the CO₂ curve can
 - Please note: The etCO₂ measurement and the CO₂ curve can still be used for:
 - · checking the tube position;
 - identifying the return of spontaneous circulation (ROSC) by a sudden increase in the etCO₂ measurement.

The safety information can also be found in the "Supplement to the instructions for use". This "Supplement to the instructions for use" must be included with the instructions for use for the above-mentioned devices.

You can download the "Supplement to the instructions for use" here or order a free copy using the reply form.

<u>Link to "Supplement to the instructions for use" MEDUMAT Standard</u>² <u>Link to "Supplement to the instructions for use" MEDUMAT Transport</u>

Link to reply form:

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4. What measures should be taken by the addressee?

Are you a specialist dealer?

- 1. Please confirm receipt of this notice using the reply form supplied by 11/20/2024 at the latest.
- 2. Ensure that your customers employing the above-mentioned devices take note of this safety information and receive the supplement to the instructions for use.

If you have already resold or otherwise passed on the device:

- 3. Forward a copy of this notice and the supplement to the instructions for use to the relevant customers.
- 4. Ask your customers to confirm receipt of the notice.
- 5. Instruct your customers to implement the safety measures as described above.



Are you a user or an operator?

- 1. Please confirm receipt of this notice using the reply form supplied by 11/20/2024 at the latest.
- 2. Ensure that all users employing the above-mentioned devices take note of this safety information and receive the supplement to the instructions for use. To help you in this regard, we have compiled a template for a notice that can be posted in all ambulance stations to draw users' attention specifically to the issue.
- 3. Ensure that the "Supplement to the instructions for use" is included with all instructions for use.

Please implement these measures promptly.

This Field Safety Corrective Action is a compulsory measure. The responsible authority has been notified accordingly.

Contact

If you have any questions or require any assistance, please consult your local specialist dealer or contact us directly:

Phone:

E-mail: customerservice@weinmann-emt.de

Best regards,

WEINMANN Emergency Medical Technology GmbH + Co. KG

Managing Director

PRRC Head of Global QRA

This document was issued electronically and is therefore valid without signatures.

Attachments

Form: "Reply regarding safety information"

Links:

Reply form:

FSCA MMT MMS2 2024-10.01 CO2wCPR | WEINMANN Emergency (weinmann-emergency.com)

Supplements to the instructions for use:

Link to "Supplement to the instructions for use" MEDUMAT Standard² Link to "Supplement to the instructions for use" MEDUMAT Transport

Please use the digital reply form at:

Position (in block letters)

FSCA MMT MMS2 2024-10.01 CO2wCPR | WEINMANN Emergency (weinmann-emergency.com) or complete this reply form and return it to us by e-mail, fax, or mail to:

CustomerService@weinmann-emt.de Fax:

> WEINMANN Emergency Medical Technology GmbH + Co. KG After Sales Service

Date	, signature	Name (in block letters)
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