

EMMA™ Capnograph

Immediate capnography at your fingertips



Actual Size

- > **Immediate results** — EMMA requires virtually no warm-up time, with full accuracy in 15 seconds to measure end-tidal carbon dioxide (EtCO₂) and respiration rate (RR)
- > **Continuous capnogram** allows for confirmation of endotracheal tube placement, enables clinicians to assess the depth and effectiveness of compressions, and allows clinicians to recognize return of spontaneous circulation (ROSC)¹
- > **Small, portable capnograph** — lightweight design fits in the palm of your hand for unmatched mobility and convenience during short-term EtCO₂ monitoring of adult, pediatric, and infant patients
- > **Flexible use at multiple points of care**, including pre-hospital, emergency medicine, operating room, intensive care unit, and long-term acute care
- > **Helps clinicians assess the effectiveness of CPR and guide ventilation**, allowing them to make adjustments in the course of treatment, breath by breath
- > **Rugged, water-resistant design** for reliable operation in challenging environments
- > **Easy to maintain** — no routine calibration required

FEATURES

- > **Clear, continuous capnogram** of carbon dioxide values
- > **Simple, easy-to-use interface** for quick set-up and one-touch programming
- > **Audible and visual alarm system** for No Adapter, Clogged Adapter, No Breath (Apnea), Low Battery and adjustable High and Low EtCO₂ alarm
- > **Long battery life**—up to 10 hours of normal use with two standard AAA lithium batteries

Alarm Limits

Alarm limits and visual alarm status indicator, silence active alarms for two minutes

Capnogram

14.4 second sweep of CO₂ values

Power Button

Warm-up time to full accuracy in 15 seconds

End-tidal Carbon Dioxide

Quantitative EtCO₂ is updated every breath (Model 3678 displays in kPa)

Respiration Rate

RR is displayed after two breaths and updated every breath

Airway Adapter

Available in adult/pediatric and infant sizes



PERFORMANCE

RANGES

CO ₂	0-99 mmHg
	0-9.9 kPa
RR	3-150 bpm

ACCURACY (STANDARD CONDITIONS)

CO ₂	0-40 mmHg ± 2 mmHg; 41-99 mmHg 6% of reading
	0-5.3 kPa ± 0.3 kPa; 5.4-9.9 kPa 6% of reading
RR	± 1 bpm

BATTERIES

Type	2 (two) AAA Cell Alkaline or Lithium
Battery life	6 hours (Alkaline) 10 hours (Lithium)

ENVIRONMENTAL

Operating temperature	-5 to 50° C (23 to 122° F)
Operating atmospheric pressure	70 to 120 kPa
Operating humidity	10-95%, non-condensing
Storage temperature	-30 to 70° C (-22 to 158° F)
Storage atmospheric pressure	50 to 120 kPa

PHYSICAL CHARACTERISTICS

Dimensions	2.1 x 1.5 x 1.5" (5.2 x 3.9 x 3.9 cm)
Weight	2.1 oz (59.5 g) (with Alkaline batteries)

ADAPTER INFORMATION

Dead space adult/pediatric	6 ml
Dead space infant	1 ml

KIT



> EMMA Kit*

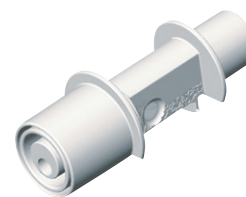
EMMA (mmHg) PN 3639
EMMA (kPa) PN 3678

ACCESSORIES



> EMMA Airway Adapter

Adult/Pediatric
Box of 25
PN 17448



> EMMA Airway Adapter

Infant
Box of 10
PN 17449

*In order for the EMMA Kit to provide readings, either of the listed airway adapters is required. Kit includes EMMA, pouch, and lanyard.

¹ Neumar RW et al. *Circulation*. 2010;122:S729-S767.

Caution: Federal law restricts this device to sale by or on the order of a physician.

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