

# FM

## Flowmeters

The FM flowmeters are devices for the supply of medical gases having from two to six antistatic and graduated tubes and completed with an integrated dosage unit.

### STRUCTURE

The body is made of anodized aluminum and the inlet connections for O<sub>2</sub>, Air and N<sub>2</sub>O at the bottom of the flowmeter are arranged to be connected to hospital centralized gas plants or to cylinders complete with pressure regulators.

### WORKING PRINCIPLE AND SAFETY

The gas feeding unit includes a safety valve automatically blocking the N<sub>2</sub>O supply when the feeding pressure of O<sub>2</sub> drops below the value of approximately 0.4 bar. The mixtures of O<sub>2</sub> and N<sub>2</sub>O can be supplied to the patient through a dosage unit. An incorporated mixing device proportions the N<sub>2</sub>O in such a way that a minimum of at least 30% of O<sub>2</sub> is always present in the gas mixture. At the outlet of the dosage unit, an anesthesia evaporator can be connected or the gas mixture can be supplied directly to the patient through the gas feeding unit. The O<sub>2</sub>+ flush button can be used for a quick supply of O<sub>2</sub> directly at the outlet of the mixture on the gas feeding unit.

### Main information



The FM flowmeter can be supplied from two to six tubes.



The O<sub>2</sub>+ flush button can be used for a quick supply of O<sub>2</sub> directly at the outlet of the mixture on the gas feeding unit.

### Related products



Hoses and probes for various gases from p. 155

	FM 2200	FM 2300	FM 2500	FM 2800	FM 2900
<b>SIZES (LxWxH)</b>	148x143x318 mm	148x143x318 mm	148x143x318 mm	148x143x318 mm	148x190x318 mm
<b>WEIGHT</b>	5.52 Kg	5.57 Kg	5.64 Kg	5.69 Kg	7.20 Kg
<b>DOSAGE RANGE</b>	O <sub>2</sub> 0.2 - 15 L/min. N <sub>2</sub> O 0.2 - 12 L/min.	O <sub>2</sub> 0.1 - 1 L/min. 0.2 - 15 L/min. N <sub>2</sub> O 0.1 - 1 L/min. 0.2 - 12 L/min.	O <sub>2</sub> 0.2 - 15 L/min. Air 0.2 - 15 L/min. N <sub>2</sub> O 0.2 - 12 L/min.	O <sub>2</sub> 0.1 - 1 L/min. 0.2 - 15 L/min. Air 0.2 - 15 L/min. N <sub>2</sub> O 0.1 - 1 L/min. 0.2 - 12 L/min.	O <sub>2</sub> 0.1 - 1 L/min. 0.2 - 15 L/min. Air 0.2 - 15 L/min. N <sub>2</sub> O 0.1 - 1 L/min. 0.2 - 12 L/min. CO <sub>2</sub> 0.1 - 2 L/min. (limited at 1 L/min.)
<b>ACCURACY</b>	±10% read value between 10% (or ±0.3 L/min. if greater) and 100% E.O.S. and ±0.15 L/min for flow < 10% E.O.S (±0.1 L/min for flow E.O.S. ≤ than 2 L/min.)				
<b>INLET PRESSURES</b>	3.5 - 5 bar ±20%				
<b>N<sub>2</sub>O BLOCKING DEVICE</b>	the supply of N <sub>2</sub> O is blocked when the O <sub>2</sub> pressure drops below 0.4 bar ±0.2 bar.				
<b>CHARGE LOSS LEVEL, SIDE UNDER PRESSURE (BEFORE THE ADJUSTING NEEDLE VALVES)</b>	less than 25 ml/min. in normal pressure conditions (ISO 5358)				
<b>CHARGE LOSS LEVEL, LOW PRESSURE SIDE (AFTER THE ADJUSTING NEEDLE VALVES, VAPORIZER EXCLUDED)</b>	less than 25 ml/min. at 30 cm H <sub>2</sub> O				
<b>HYPOXYGUARD SYSTEM</b>	at least 30% -3% O <sub>2</sub> is guaranteed in the mixture with N <sub>2</sub> O opening value equal to 0.4 L/min. (with inlet pressures of 3.5 bar)				
<b>MIXED GASES OUTLET CONNECTION</b>	conical connection 23 mm F ISO DIN 5356/1				
<b>GASES INLET CONNECTIONS</b>	hose connector Ø 6 mm				
<b>O<sub>2</sub> QUICK DOSAGE (IF FORESEEN)</b>	when pushed it can supply more than 45 L/min. O <sub>2</sub>				

- 1 Gas selector.
- 2 O<sub>2</sub>+ flush button.
- 3 Gas adjusting knob.

