

# Gas flow Meter FM4/04 & FM4/60

Ideal gas flow measuring equipment for the smallest - as well as discontinuous - flows

Specially designed for thermo-analysis and process technique





## FM4, the gas flow meter for smallest volumes and universal applications

#### General

- Ideal gas-flow-measuring equipment for the smallest gas flows
- Especially suited for thermo analysis and process technique
- Closed system, toxic gasses can be drawn off
- Excess pressure or partial vacuum balanced out by means of gas flow through the barrier fluid

### Measuring principal

- >Pump switches on at excess pressure of approx. 3 mm H2O (0.3 mbar)
- > Capacitive measuring system. Does not come into contact with the barrier fluid
- Barrier fluid can be any type of watery solu- $\geq$ tion; can be covered by silicon oil
- Parts in contact with gas (only glass or sili-con) easily removable for cleaning

#### Measurement range

- $\geqslant$ Flow quantities at FM4/04: max. 4 l/h or 70 ml/min FM4/60: max. 60 l/h or 1000 ml/min
- Totalizer up to 999.999 |  $\geq$
- $\triangleright$ Integrator with analog output for 1000 pulses: 0...10 VDC - divider for 1, 10, 100, 1000 and
  - 10'000 l/10Vdc - when overrunning, starts again at 0
- Pulse output 5 VDC for external processing:  $\geq$ - un-calibrated with approx. 100 pulse/ml
  - (depending on model and tubes)
  - pre-calibrated with 1 pulse/ml

#### Calibration and accuracy

- $\geqslant$ Simple calibration with water by weighing or gauging the capacity by litres
- Pump can be calibrated to 1 pulse/ml thanks  $\geq$ to divider 1...999; typical 100 pulse/ml (depending on model and tubes)
- $\geq$ Pump rate can be preset, therefore gives the most optimal calibration accuracy
- Accuracy: typ. 0.5% (FM4/04) to 1% (FM4/60) or 2 ml, whatever the greater

#### Brief technical data

Voltage:	230 or 115 VAC, please specify
Frequency:	48 to 62 Hz
Power:	50VA
Battery:	3.6 V for totalizer
Output:	Analog 0 to 10 VDC, max. 1 mA, resp. current sink 4 to 20 mA, U > 13 VDC D/A converter 10 bit
Raw pulses:	Digital pulse +5 VDC CMOS
Dimension:	width 295 mm height 320 mm depth 280 mm
Weight:	10.5 kg



A4e FM4 Flyer a



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Technical details are subject to change without notice