

# MM-3000E Series

RoHS



**The MM-3000E series is a new highly functional mass flow meter, which has retained the diverse functions the MC-3000 series possesses. Used in combination with mass flow controllers, considerable improvements in reliability can be made.**

### Features:

- High functionality due to built in microprocessor
- High accuracy due to use of high resolution (16 bit) A/D, D/A converter
- Equipped with alarm output function as standard
- Equipped with alarm state LED display
- Equipped with auto zero function
- Equipped with general purpose digital interface (RS-232C or RS-485 conformity)
- Device numbers can be set
- Electrical compatibility with previous models preserved
- Compact body size
- Use of metal seals (Standard: Au, Optional: Pt)
- Precision polishing of body interior as standard

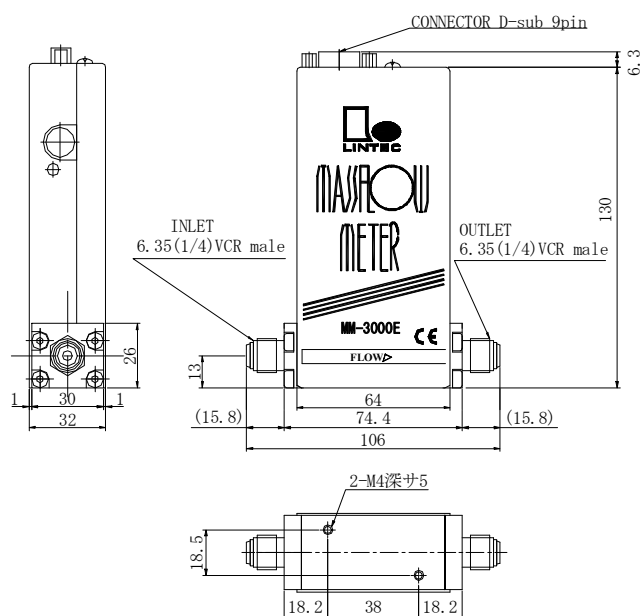
### Applications:

- Connect in series with MFCs which require high reliability to monitor for flow rate abnormalities
- Flow rate measurements of corrosive gases
- Leak tester
- Flow monitor for combustible gases
- Standard flow rate instrument
- Flow rate measurements of various kinds of gases

# MM-3000E Series

## SPECIFICATIONS

Model		MM-3102E	MM-3202E	MM-3252E
Flow rate range		5SCCM - 5SLM	10, 20SLM	30, 50SLM
Response time (0 to 98%F.S.)		1 sec (typical)		
Accuracy		±1%F.S.		
Linearity		±0.5%F.S.		
Repeatability		±0.2%F.S.		
Withstand pressure		980kPa		
Operation temperature		0-50 °C		
Temperature coefficient	Zero point	±0.02%F.S./ °C		
	Span	±0.02%F.S./ °C		
Pressure coefficient		0.001%F.S./kPa		
Leak integrity		1×10 <sup>-11</sup> Pa·m <sup>3</sup> /sec		
Materials exposed to gases	Body	SUS-316L		
	Seals	Au		
Standard fittings		6.35mm VCR Male		
Flow rate output signal		0-5V (proportional to flow rate)		
Set output signal		0-5V (proportional to flow rate)		
Alarm output		Open collector transistor output		
Digital interface		RS-232C or RS-485 conformity		
Power supply requirements		+15V 70mA, -15V 70mA		
Mounting direction		Free		



\* This datasheet was created from the contents as of Sep 2008.

\* Specifications/descriptions may be modified without notice due to improvement.

\* Before shipping to a third country, consult LINTEC.

## ORDERING INFORMATION

**MM-3102E-AA-BB-CC-DD-EE**

**MM-3202E-AA-BB-CC-DD-EE**

**MM-3252E-AA-BB-CC-DD-EE**

### AA: Fitting

6.35 mm VCR

IPC (C-seal)

IPW (W-seal)

### BB: Option

LEP (Surface polishing)

SR (Small flow rate)

WR (Wide range control)

### CC: Gas to flow

### DD: Full scale flow rate

### EE: Unit of flow rate

SCCM (Standard ml/min at 0 °C)

SLM (Standard l/min at 0 °C)



**WARNING!!** Read and understand completely the Operation Manual to secure your safety.



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