

## Liquid Mass Flow Meter

# LM-2102A/2202A

液体用マスフローメータ

RoHS対応



### ■特長

- LM-2102A/2202Aは、各種液体材料の高精度流量計測を実現した、液体用マスフローメータです。
- 当社独自の熱式マスフローセンサ(特許出願中)を採用、電子回路はデジタル化され、高速、高精度の流量計測が可能です。
- コントロールバルブ(CV series)との組み合わせにより、高精度の流量制御が可能です。
- 加えて、当社独自の気化器(VU series)との組み合わせにより、高速、高精度の液体気化供給が可能です。
- RoHS指令準拠

### ■用途

- 各種薬液、有機溶媒、有機化合物溶液、高純度水等の流量計測。
- コントロールバルブ(CV series)との組み合わせによる、各種液体の流量制御。
- 気化器(VU series)との組み合わせによる、各種液体の流量制御および気化供給。

### Features:

- The LM-2102A/2202A liquid mass flow meter measures various liquid material flow rates with high precision.
- LINTEC's patented original thermal mass flow sensor is incorporated for measuring flow rate. Digital circuitry provides high-speed reliable flow rate measurement.
- Combined with the flow rate control valve CV series, high precision liquid flow rate control is possible.
- In addition, combination with LINTEC's original vaporizer VU series makes high precision and high speed vaporization possible.
- RoHS conformable.

### Applications:

- Measurement of various liquids such as chemicals, organic solvents, liquid organic compounds or de-ionized water etc.
- Flow rate control of various liquids when used in combination with flow rate control valve CV series.
- Flow rate control and vaporization when used in combination with vaporizers.



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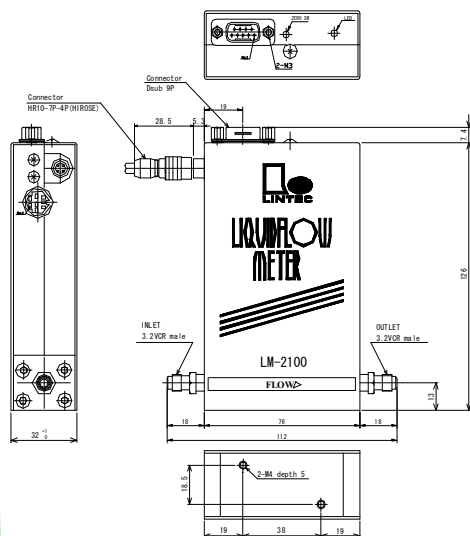
## LM-2102A/2202A

液体用マスフローメータ

### SPECIFICATIONS

#### Model LM-2102A/2202A

Item	Units	Specifications	
Flow rate range (Full scale)	g/min	LM-2102A	LM-2202A
	(C <sub>2</sub> H <sub>5</sub> OH)	0.1 ~ 1.0	1.0 ~ 6.0
	(H <sub>2</sub> O)	0.1 ~ 0.2	0.3 ~ 1.0
Accuracy	%F.S.	±1	
Linearity	%F.S.	±0.5	
Repeatability	%F.S.	±0.5	
Pressure capacity	kPa	1000	
Operation temperature	°C	15-35	
Temperature coefficient	%F.S./°C	Zero	0.1
		Span	0.1
Leak integrity	Pa·m <sup>3</sup> /sec	1 × 10 <sup>-11</sup>	
Materials exposed to fluids	Body	SUS-316L	
	Seals	Au	
	Flow sensor	SUS-316L	
Standard fittings	Inlet	3.2mm VCR Male	
	Outlet	3.2mm VCR Male	
Flow rate command	Volts DC	0-5	
Flow rate output	Volts DC	0-5	
Power supply requirements		+15V	150mA
		-15V	200mA
Alarm display	Normal Condition change Abnormal	Green LED flash	
		Red LED flash	
		Red LED continuous on	
Zero adjustment		Zero switch and auxiliary input	
Digital communication	Digital interface Alarm output Zero adj. Input Preset input	RS-232C/RS485	
		Open collector output	Possible
			Possible
			Possible
Connector and cable	Main connector Communication Cable (Optional)	Dsub-9 pin	
		CC-DOSF (Dsub-9 pin)	
Mounting direction		Free	
Weight	g	800	
Optional	LEP	Surface polishing	
	PT	Pt Seal	



### ORDERING INFORMATION

#### LM-2102A-AA-BB-CC-DD

AA: Option

LEP (Surface polishing)  
PT (Pt Seal)

BB: Fitting

3.2mm VCR Male etc.

CC: Liquid to flow

DD: Flow rate (g/min F.S.)

- \*Please inform us of the type or types, and chemical properties of the liquids you intend to use.
- \*For specialized liquids, if the customer can provide LINTEC with a sample of the liquid, a flow rate calibration can be carried out for a fee.
- \*Some liquids cannot be accepted by LINTEC.
- \*For information on specifications not included in this brochure or for other matters please contact LINTEC's sales representative.
- \*This brochure is valid as of September, 2008.
- \*Changes in specifications may be made without prior notice.



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



<http://www.lintec-mfc.co.jp>

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