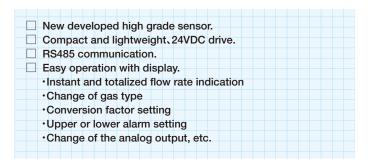
## **Digital Mass Flow Meter with Display**

# ODEL EX-700R SERIES

**EXE-FLOWTM** was commercialized "Exact measurement" and "Excellent function as a concept. This is covered from small flow rate (F.S.10sccm) to large flow rate (F.S.500slm) and the 14 flow ranges are ready as s standard stock.





## Standard Specifications

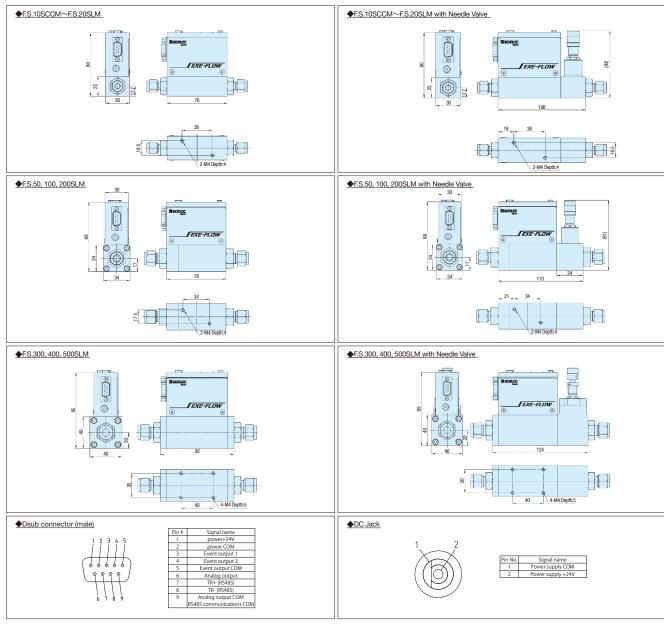
- Claridata Opcomoditions				
Flow range (N₂ conversion)		F.S. 10 / 50 / 100 / 500SCCM 1 / 5 / 10 / 20SLM	F.S. 50 / 100 / 200SLM	F.S. 300 / 400 / 500SLM
Accuracy *1		±1%F.S.	±1.5%F.S.	
Applicable gas *2		N <sub>2</sub> (Air, H <sub>2</sub> , He, Ar, O <sub>2</sub> , CO <sub>2</sub> ,CH <sub>4</sub> /By N <sub>2</sub> conversion)	N₂,(Air, Ar/ By N₂ conversion)	N <sub>2</sub> ,(Air,/ By N <sub>2</sub> conversion)
Temperature	Accuracy guarantee temperature	15~35°C		
	Operating temperature	5~50°C		
	Storage temperature	-10~60°C		
Allowable operating humidity		10~90%RH (no condensation)		
Proof pressure		1MPa(G)		
Fitting (Standard)		1/4SW	3/8SW	1/2SW
Materials of parts in contact with gases		SUS316, SUS316L, PTFE, PCTFE(only 300-500SLM), FKM (op. : NBR, CR)		
Power supply		24VDC(±10%), 100mA or lower		
Flow rate indication	Display	4-digit 7-segment LED (Zero blanking)		
	Instantaneous flow rate indication update cycle	25, 50, 100, 200, 500, 1000msec (selectable)		
	Low cut function	Indication of a value below 1% F.S. settable to "0"		
	Indication range	When the low cut function is not used; from approx10% F.S. to approx. 125% F.S. (indication limiter flashing)		
	Integrated flow rate indication range *3	8-digit indication (Max. 99,999,999, indication limiter flashing) The units of indication are the same as the instantaneous flow rate.		
Digital communication		RS485(MODBUS RTU) ,ID:1~247		
External output	Number of outputs	2 points (Each output selected and set to instantaneous flow rate upper limit, upper/lower limit or integrated flow rate reach. 1 point may be integrating pulse.) Inversion of outputs is possible.		
	Output method	NPN open collector (Max. rating: 30 VDC, 50 mA)		
	Integrating pulse output rate	1%F.S.~100%F.S. / pulse, pulse width: approx. 50ms		
	Alarm indication	LED lamps (OUT1, OUT2) turning on		
	Analog output	Standard :4-20mA (500Ω or below) Switchable:1-5V or 0-5V (10kΩ or over)		
Weight		Approx. 600g	Approx. 700g	Approx. 1000g
t e <u>=</u>	Flow adjust knob turning	Approx. 12 turns		
Needle valve part	Materials of parts in contact with gases	SUS316, PTFE, FKM(op. NBR, CR)		

 $<sup>^{*}</sup>$ 1. The accuracy is guaranteed for nitrogen gas.  $^{*}$ 2. The full scale of the selected gas is the same as the full scale of N<sub>2</sub>.

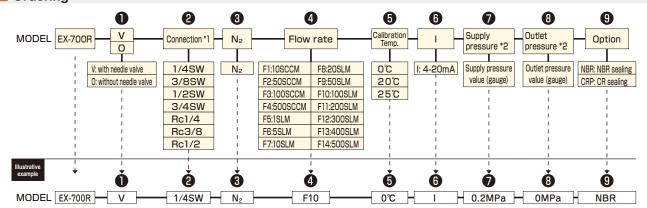
<sup>\*3.</sup> The indication of integrated flow rates is for reference. It is held when the power is turned off.

<sup>\*4.</sup> Analog output is switchable by indicator.

#### Dimensions



#### Ordering



<sup>\*1: 3/8</sup>SW for over 50SLM and 1/2SW for over 300SLM are required.

### Accessory

- □Power supply adaptor: model PSK-83CE (cable length : Approx.1500mm)
- ☐ Electrical cable: model CP-EX-700-CF※ (※Cable length: -1M, -3M, -5M)

In case of the use at the place with strong noise influence, it is recommended to assemble the ferrite core with the power supply adaptor.

<sup>\*2:</sup> In case of the "with precision needle valve", the supply pressure and outlet pressure values are required.