CMS1500 Gas Mass Flowmeter

(Aluminum)

The CMS1500 is a highly reliable gas mass flowmeter that uses the Yamatake μF (Micro Flow) sensor as its sensing element. The μF sensor is a MEMS thermal mass-flow sensor capable of measuring ultra-low flow rates. The integration of the μF sensor and advanced channel design technology has achieved high accuracy and high rangeability at a low cost.

Flow rate (L/min (standard))

1500

1500

900



Description

Specifications

Compatible gases	Air, nitrogen, argon, carbon dioxide (CO ₂). Gas must be dry and without		
	corrosive components (chlorine, sulfur, acid, etc.). It must also be		
	clean, without dust or oil mist.		
Flow rate range	0 to 1500L/min (standard)		
	"Standard" refers to the flow rate adjusted for 20°C, 101.325kPa		
	(1 atmosphere).		
Measurement accuracy	1/10 to 1/1 of flow rate range: ±5% rdg.		
	1/50 to 1/10 of flow rate range: ±1% FS		
	% rdg.: percentage of indicated reading. % FS: percentage of full scale.		
Operating pressure	0 to 0.5MPa		
Sampling cycle	100ms ±10%		
Power	12 to 24Vdc		
Current consumption	100mA max.		
Mass	Approx. 3000g		

 Gas Type and Maximum Control Flow Rate The maximum control flow rate varies according to the gas type.

Seyment	iii wouei wo. selection		Description
I	Basic No.	CMS	Gas mass flowmeter
11	Flow rate range	1500	0 to 1500L/min (standard)
III	Туре	В	Integrated display
IV	Material	Α	Aluminium
V	Connection size	R	Rc 1"
VI	Gas type	N	Air, nitrogen, argon and CO2
VII	Output	2	4-20mA, 0-5V or 1-5V (selectable)
VIII	Option 1	1	RS-485 communications
IX	Option 2	0	None
Х	Option 3	0	None
XI	Option 4	0	None
		D	With inspection data
		Y	With traceability certification
XII	Design code	0	Product version

Selection Guide IIIIVVVVVVXXXXX Example: CMS1500BARN210000

Accessories (sold separately)

Model No.	Description
81446594-007	Harness for RS-485 communications (2m long)
81446594-008	Harness for RS-485 communications (5m long)

Dimensions

Gas type

Air/nitrogen Argon

Carbon dioxide (CO₂)

(Unit: mm)

