

## RS-485 Compatible Compact Flow Rate Controller RAPIFLOW FCM Series



# Reliable industrial network Supports RS-485

### Supports RS-485 communication *New*

Highly stable, noise-resistant and long-distance communication are possible  
Reliable RS-485 is used for industrial network communication while maintaining conventional functions and installation sizes.

Analog input

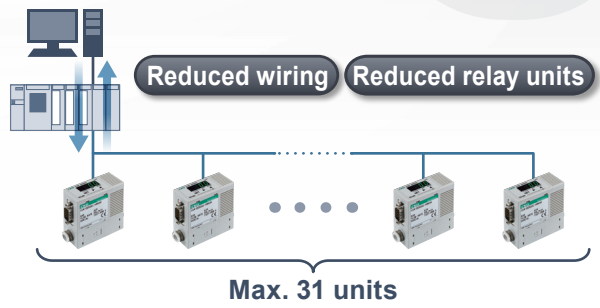
Conventional function  
Dimensions Installation  
Pinouts

+

RS-485 communication (Mobile RTU)

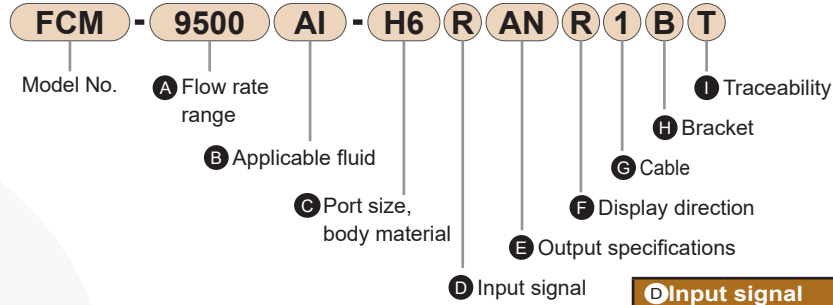
### Cost reduction of wiring and relay devices

Up to 31 connections  
A max. of 31 units can be connected together with one master.  
Wiring and analog units can be reduced.



# FCM Series

## How to order



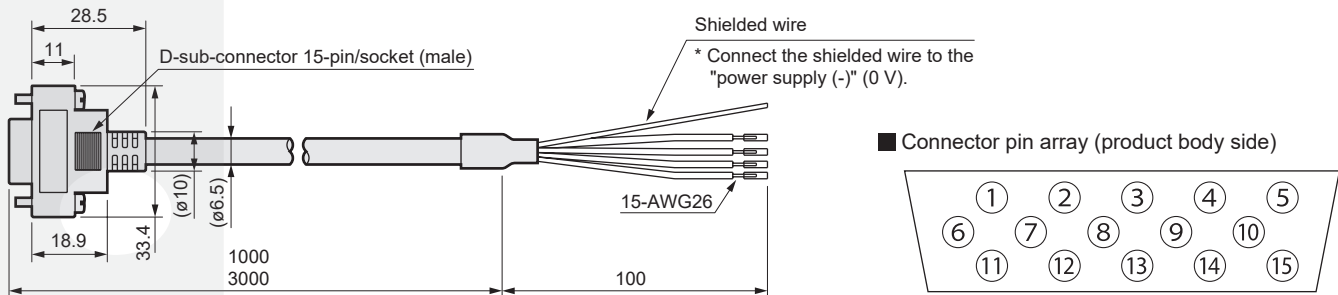
Regarding listed model Nos..  
Only newly added models with RS-485 compatibility (input signal: R) are listed in this catalog. Refer to "Pneumatic, Vacuum and Auxiliary Components" (catalog No.CB-024SA) for details on the FCM Series (specifications, model No., etc.).

D Input signal	
0	Analog 0 to 10 VDC
1	Analog 0 to 5 VDC
2	Analog 4 to 20 mADC
P	Parallel 10 bit
R	RS-485 + Analog

## Pinouts

D-sub Socket Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Option Cable Insulator color	Brown	Orange	Yellow	Purple	Red	Light blue	Pink	White (Black stripe)	Red (Black stripe)	Gray	White	Green (Black stripe)	Green	Blue	Black	
Name	Preset Input signal		integration Reset Signal	Digital Signal Gland	Power supply + +24 VDC	RS-485 communication line				Common	Analog Input	termination Resistance	Analog Output	Switch Output	Error Output	Power supply - Input
Input	Bit 1	Bit 2				A-IN (+)	B-IN (-)	A-OUT (+)	B-OUT (-)				Output 1-5 VDC	NPN or PNP Output	NPN or PNP Output	

Note: Pin No. 4 is the signal ground for RS-485 communication.  
Note: The No. 8 pin (A-OUT) and the No. 9 pin (B-OUT) are for crossover wiring. Use when connecting multiple units.  
Note: The No. 10 pin common is the common for the preset input and accumulation reset signal (pin No. 1 to 3).



## Communication specifications

Item	Detail
Communication standard	RS-485 compliant
Communication method	half-duplex
Synchronization mode	rate synchronization
Communication protocol	Modbus RTU compliant
Transmission bit rate	9.6/19.2/38.4kbps
Data bit	8 bit

Item	Detail
Parity bit	None/Odd/Even
Stop bit	1 bit/2 bit
Transmission distance	Max. 20 m
Component address	1 to 247
Connection type	1: N (max. 31)

If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require that the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

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