

FC SERIES SETTER (CONTINUOUS OUTPUT)

DATA SHEET I

PMF

The FC SERIES setter is used for remote setting of a controller or variable constant setting of various types of computing elements. This instrument uses a solid state indicator and a pushbutton operation system to provide reliable functions.

SPECIFICATIONS

1. Setting Functions

Local setting

Setting method: Manual setting

Front panel pushbuttons 🔺 🔻

Travelling time; 40s/FS

Set point transmit signal:

1~5V DC

Internal impedance: 0.5Ω or less Allowable load current; ±3mA

Operation mode indicator:

Front panel indicating lamp (L)

Cascade voltage setting

Setting method: External setting with 1~5V DC signal,

and manual setting

Follow-up characteristic:

Follow-up speed; 2.5s/FS Follow-up allowance ±0.5% FS

Setting mode change lever:

R (remote) - L (local)

Local (L) - Remote (R) changeover:

Local set point follows external setting signal in remote setting mode, Balanceless, bumpless changeover.

In local setting mode, external set point is indicated on the set point variable (SV) indicator by pressing the balance button , so the changeover is made by manually correcting the local set point.

Set point transmit signal:

1~5V DC

Internal impedance; 0.5Ω or less Allowable load current: ±3mA

Digital output signal:

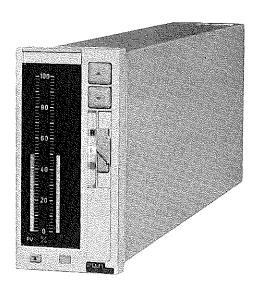
RR (request, remote);

For remote setting

L (local); For local setting Contact; Transistor contact

Contact ratings; Max. 30V DC, 0.1A

(resistance load)



Operation mode indicator:

Front panel indicating lamps (R, L)

Cascade pulse width setting

Setting method: External setting with increased and

decreased pulse width, and manual

settina

Follow-up characteristic:

Follow-up speed; 10s/FS

Minimum detectable pulse width; 10ms

Setting mode change lever:

R (remote) - L (local)

Local (L) - Remote (R) changeover:

Balanceless, bumpless changeover for both local (L) Remote (R)

Set point transmit signal:

1~5V DC

Internal resistance; 0.5Ω or less Allowable load current; ±3mA

Digital output signal:

RR (request, remote);

For remote setting

L (local); For local setting Contact; Transistor contact Contact ratings; 30V DC, 0.1A

(resistance load)

EDS11-38c

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Cascade pulse number setting

Setting method: External setting with increased and

decreased number of pulses, and

manual setting.

Follow-up characteristic:

Number of pulses for full scale travel;

1000 pulses/FC

Pulse width; 5ms or more Pulse speed; 100pps or less

Setting mode change lever:

R (remote) - L (local)

Local (L) - Remote (R) changeover:

Balanceless, bumpless changeover for

both Local (L)

Remote (R)

Set point transmit signal:

1~5V DC

Internal resistance; 0.5Ω or less Allowable load current; $\pm 3\text{mA}$

Digital output signal:

RR (request, remote);

For remote setting

L (local); For local setting Contact; Transistor contact Contact ratings; 30V DC, 0 1A

(resistance load)

2. Input Signal

Measuring input signal:

1~5V DC

Setting command signal:

1~5V DC, pulse width signal, pulse

number signal

Function select signal:

ON/OFF signal

Signal ratings:

Analog signal; 1~5V DC

Input impedance; $500k\Omega$ or more (33k Ω outside of range)

Input filter time constant; 33ms Pulse width, pulse number and ON/OFF

signals

Signal ON; 0V DC/-2 5mA Signal OFF; 24V DC/+3mA

4. Operational Conditions and Others

Power supply:

24V (20~30V) DC or

100V ±10% AC, 50/60 Hz

Power consumption:

Approx. 6W (24V DC) or

approx. 9VA (100V AC)

Allowable momentary power interruption time:

DC power supply; 1ms AC power supply; 30ms

DC power supply for battery backup

is available on request

Memory data holding time:

Set point; TYP 30 min

When memory data are cleared due to a long power failure, the set point is resumed at the preset level (preset level setting function is built in)

Dielectric strength:

500V AC, 1 min (DC power supply) 1000V AC, 1 min (AC power supply)

Intion resistances

Insulation resistance:

More than $100M\Omega$ at DC 500V

Ambient temperature:

0~45°C

Ambient humidity:

90% RH (MAX)

Enclosure: Steel case

Dimensions (HxWxD):

144x72x400 mm (case) + terminals

Weight:

Approx, 4.5 kg

Finish color: Munsell 7Y 7.3/1.4 (case, front panel)

Range of delivery:

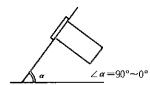
Setter, mounting bracket

Mounting method:

Panel flush mounting

Standard: Vertical mounting

Nonstandard: Inclined mounting



3. Indicating Functions

Process variable input and set point variable indicators

Indicating method:

Plasma display (orange)

Number of indicating segments:

201

Indicating range: 0~100%, linear

Indication resolution:

0 5% of full scale

Scale length: 100 mm

Setting mode indication

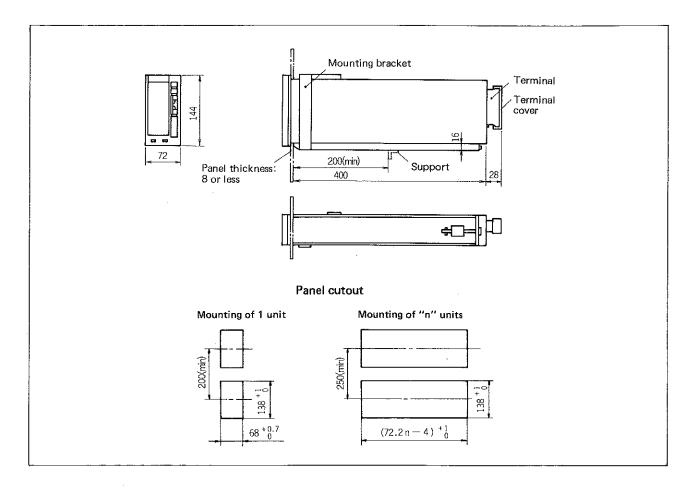
Indicating lamp: Local (L); Green L lamp ON

Remote (R): Green R lamp ON

CODE SYMBOLS

1 2 3 4 5 6 7 8				
PMF	00		3	Description
				Setting system
1				Manual setting
3				-Cascade voltage setting
4				Cascade pulse width setting
5				Cascade pulse number setting
				Power supply
		1		-24V DC
		3		100V AC 50/60 Hz

OUTLINE DIAGRAM (Unit:mm)



CONNECTION DIAGRAM

