

Microprocessor Controller

FY900 / FY800 / FY700 / FY600 / FY400 Series

Applicable for controlling Temperature, Humidity, Pressure, Flow...
Complete sizes for 1/4 DIN, 1/8 DIN, 1/16 DIN, 68mm and Easy for Mounting.

Features

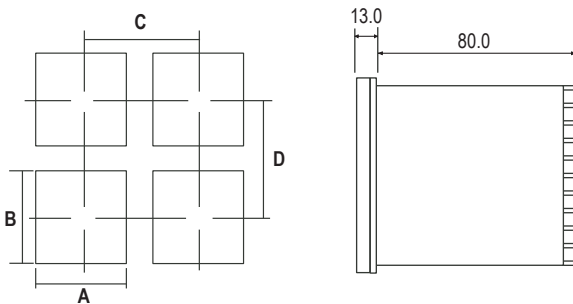
- Multi range input (TC, RTD, mV, mA) each 14Bit resolution
- Auto/Manual operation and Fuzzy/PID control
- E²PROM Non-volatile memory
- Self-diagnosis function and data lock function
- Free Power Range AC85~265V / DC15~50V
- Duplex Output Mode (Heat/Cool), Auxiliary Output PV, SV retransmission
- 17 alarm modes available, and option up to 3 alarm sets
- Implement Zero/Phase control by trig SCR module directly
- RS232 and RS485 communication
- 2 patterns each 8 segments programming procedure available
- 2nd Input can be used in Remote-SV



SPECIFICATION

Display accuracy	Within 0.2% of displayed value + 1 digit	
Sampling Time	250ms	
Output Mode	Relay Output Voltage Output Linear Output Motor Control Output Others	Contact, SPDT, 3A/240Vac Voltage Pulse, 20VDC/20mA 4~20mA, 0~5V, 0~10V, 1~5V, 2~10V Proportional motor 3 wired open loop circuit control 1Φ SSR, 3Φ SSR, 1Φ SCR, 3Φ SCR
General Specification	Power Consumption Ambient Temperature Ambient Humidity	4VA 0°C ~ 50°C 50~85% RH (Non-dew)

Panel Cutout (unit: mm)



Model No.	SIZE	Outline (W x H)	A	B	C	D
FY900	1/4 DIN	96.0x96.0	90.5+0.5	90.5+0.5	111	116
FY800	1/8 DIN	50.0x96.0	44.5+0.5	90.5+0.5	65	116
FY700	68x68mm	74.0x74.0	68.5+0.5	68.5+0.5	89	94
FY600	1/8 DIN	96.0x50.0	90.5+0.5	44.5+0.5	111	70
FY400	1/16 DIN	50.0x50.0	44.5+0.5	44.5+0.5	65	70

HOW TO ORDER

If option for Program model Add "P" before FY

P FY 4 0 0 - 1 0 1 0 0 0

Water-proof Option Power Specified Input

None
W IP 65 **NEW**

AC 85~265V
D Power DC24V
E Excitation Supply DC24V

The initial Input setting is K2 (0.0~400.0°C) if no specified Input.

PT DIN Pt100
A1 0 ~ 20mA
A2 4 ~ 20mA
V1 0 ~ 1V
V5 0 ~ 5V
V10 0 ~ 10V

Output 2

0 None
1 Relay
2 Voltage
3 4~20mA
A 0~5V
B 0~10V
C 1~5V
D 2~10V

Output 1

0 None
1 Relay, contact, 3A/240VAC
2 Voltage pulse, 20VDC/20mA
3 4~20mA
4 0 ~ 20mA
5 1Φ SSR (zero crossing control)
6 3Φ SSR (zero crossing control)
7 Proportional motor control
8 1Φ SCR (phase angle control)
9 3Φ SCR (phase angle control)
A 0 ~ 5VDC
B 0 ~ 10VDC
C 1 ~ 5VDC
D 2~10VDC

Alarm

0 None
1 1 set
2 2 sets
3 3 sets
A HBA **NEW**
B HBA + AL2
C HBA+AL2+AL3

Re-transmission

0 None
1 4~20mA
2 0~20mA
A 0~5V
B 0~10V
C 1~5V
D 2~10V

Remote SV

0 None
1 4~20mA
2 0~20mA
A 0~5V
B 0~10V
C 1~5V
D 2~10V

Communication

0 None
1 RS-232
2 RS-485
3 TTL
A RS232-MODBUS **NEW**
B RS485-MODBUS **NEW**

Note 1): With **W** Block means option functions with additional charge.
Note 2): Programmable model can't have Remote SV function.
Note 3): Max. 2 sets of alarm can be ordered if the controller has communication interface.
Note 4): The AL1 contact will be replaced by HBA if option for HBA function.