



■FEATURES

- Accuracy 0.05% F.S.±1digit
- Measuring DCA/DCV/ACA/ACV/Potentiometer/Transmitter/Pt-100/Thermocouple/Load Cell/Resistor/etc.....
- Programmable rate -19999~99999 digit
- Auto zero and hold and maximum hold function
- Max. four alarm function(optional)
- 16 bit DAC analog output function(optional)
- Digit RS-485 interface function(optional)
- Max.-Hold speed and compare speed fastest 0.5ms(optional)

1.MODEL:F-MM3-□□□-□□□□-□X X=NIL(sampling time 16 cycles/sec.), X=H(sampling time 200 cycles/sec.)

NO	Input Type	NO	DCV(ACV)	NO	DCA(ACA)	NO	Transmitter	NO	Load Cell	NO	Thermocouple	NO	Alarm output	NO	Analog output	NO	RS-485	NO	Aux. Power
A	DC	11	0~50mV	21	0~99.999uA	41	DC4~20mA	61	2mV/V	71	J(-200~760)°C	0	None	0	None	N	None	A	AC/DC18~60V
B	AC(RMS)	12	0~5V	22	0~999.99uA	42	DC1~5V	62	3mV/V	72	K(-200~1360)°C	1	One	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
C	AC(TRMS)	13	0~10V	23	0~9.9999mA	43	DC4~20mA	63	2mV/V	73	T(-200~395)°C	2	Two	2	DC0~10V	•Modbus mode •256 nodes on bus	• Less 4VA for AC/DC input		
D	Potentiometer	14	0~36V	24	0~99.999mA	44	DC1~5V	64	3mV/V	74	E(-185~990)°C	3	Three	3	DC4~20mA				
E	Transmitter	15	0~54V	25	0~999.99mA	49	SPECIFIED	69	SPECIFIED	75	R(0~1760)°C	4	Four	9	SPECIFIED	•Relay contact (AC250V-5A DC30V-7A)	•Two-wire transmitter (Exciting voltage DC10~36V)		
F	Pt-100(RTD)	16	0~110V	26	0~2.0000A	•41/42 nonexciting DC24V •43/44 exciting DC24V(<25mA)	•61/62 Exciting DC5V(<50mA) •63/64 Exciting DC10V(<50mA)	76	S(0~1750)°C	•C/JC traceability ±0.5°C(0~70°C)									
G	Thermocouple	17	0~600V	27	0~5.0000A			77	B(200~1800)°C										
H	Load Cell	18	0~1000V	28	0~10.000A	SPECIFIED	SPECIFIED												
L	LVDT	19	SPECIFIED	29	SPECIFIED														

2.SPECIFICATION

- Measuring accuracy : 0.05% F.S.±1 digit
(23±5°C)
0.2% F.S.±1 digit(AC(RMS))
0.2% F.S.±0.5°C (CJC)(Thermocouple)
- Sampling time : 16 cycles/sec.(General type)
200 cycles/sec.(High speed type)
- Readout range : -19999~99999 digit adjustable
- Alarm delay time : 0~99.9 second adjustable
- Alarm action : HI or Lo adjustable
- Relay contact output : AC 250V-5A, DC 30V-7A
- Analog output resolution : 16 bit DAC
- Response time : < 250ms(0~90%)
- Output drive capability : < 10mA for voltage mode
< 10V for current mode
<[(V+)-7.5V]/20mA for two-wire mode
- Output ripple (p-p) : < 0.1% F.S.
- RS-485 address : "01"~"FF"(0~255)
- RS-485 baud rate : 19200/9600/4800/2400 selective
- RS-485 protocol : Modbus RTU mode
- Temp. coefficient : 50ppm/°C (0~50°C)
- Display : Red high efficiency LEDs high 20.32mm(0.8")
- Parameter setting : Touch switches
- Memory mode : Non-volatile E² PROM memory
- Dielectric strength : 2KVac/1 min. (input/output/power)
1600 Vdc (input/output)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM

