

# MICROPROCESS DIGITAL METER RELAY



## FEATURES

- Measuring DCA, DCV, ACA, ACV, Potentiometer, Thermocouple, Pt-100, Load Cell, etc...
- Accuracy 0.05% F.S ±1 digit (DC, Transmitter)
- Programmable rate 0 to ±19999 digit
- Auto zero function
- Man-machine interface, easy to operate (readout, decimal point, alarm function, deadband etc...)

## 1. MODEL: PF-M-1 - [ ] - [ ] - [ ]

NO	Input Type	NO	DCV (ACV)	NO	DCA (ACA)	NO	Potentiometer	NO	Pt-100	NO	Transmitter	NO	Aux. Power
A	DC	11	0-50.00mV	21	0-19.999μA	31	0-10%	41	-50.0~50.0°C	51	DC 4-20mA	1	AC 110/220V
B	AC (RMS)	12	0-199.99mV	22	0-199.99μA	32	0-50%	42	-100.0~100.0°C	52	DC 1-5V	2	DC 24V
C	AC (TRMS)	13	0-1999.9mV	23	0-1.9999mA	33	0-100%	43	-200.0~200.0°C	53	DC 4-20mA	3	DC 48V
D	Potentiometer	14	0-5V	24	0-20.00mA	34	5-95%	44	-200.0~400.0°C	54	DC 1-5V	4	DC 110V
E	Transmitter	15	0-10V	25	0-199.99mA	35	10-90%	45	-200~850°C	59	SPECIFIED	5	DC 220V
F	Pt-100 (RTD)	16	0-35V	26	0-1.9999A	39	SPECIFIED	49	SPECIFIED	• 51-52 non-exciting DC 24V • 53-54 exciting DC24V (≤25mA)	6	AC 90~260V	
G	Load Cell	17	0-600.0V	27	0-5.000A	• Three wire connection • Exciting voltage DC 5V (≤5mA)	• Three wire connection	9	SPECIFIED		• ±20% of rate, less 4.5VA for AC input • ±20% of rate, less 4WATT for DC input		
O	SPECIFIED	18	0-1000.0V	28	0-10.000A			19	SPECIFIED			29	SPECIFIED

## 2. Specification

- Aux. power supply : AC110 & 220V ±20% (50 or 60Hz) (Optional DC 24V or 48V or 110V or 220V switching AC90~260V ±10%)
- Measuring accuracy : 0.05% F.S ± 1 digit (DC, Transmitter) 0.1% F.S ± 1 digit (AC(TRMS)) Potentiometer, Load Cell, Pt-100) 0.15%F.S±1 digit (AC(RMS))
- Sampling time : 2 cycles/sec
- Readout range (compare range) (auto-zero range) : 0 ~ ±19999 digit adjustable
- Deadband range (compare hysteresis) : 0 ~ 19999 digit adjustable
- Alarm delay time (deadband delay time) : 0 ~ 99 second adjustable
- Alarm action : "Hi" or "Lo" adjustable
- Over input indication : "ovEr"
- Display : Red high efficiency LEDs high 9.14mm (0.36") (96x48mm) 14.22mm (0.56") (48x96mm)
- Polarity display : When input is negative, "-" displayed
- Relay contact output : AC 250V~3A, DC30V~5A
- Temp. coefficient : 50ppm/°C (0~50°C)
- Dielectric strength : 2KVac / 1min. (input/power)
- Surge test : ANSI C37.90a/1974, DIN-IEC255-4 impulse voltage 4KV (1.2 x 50μs)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)

## 3. Outside dimension and connection diagram

