

MICROPROCESS DIGITAL METER RELAY WITH BUILT-IN TRANSMITTER



FEATURES

- Measuring DCA, DCV, ACA, ACV, Potentiometer, Transmitter, Pt-100, Load Cell, etc...
- Accuracy 0.05% F.S ±1 digit (DC, Transmitter)
- Programmable rate 0 ~ ±19999 digit
- Decimal point can be modified
- Auto zero function
- Up to 4 alarms, compare hysteresis function. (Optional)
- 15 bits DAC analog output function or RS-485/RS-232 Modbus RTU mode transmit function. (Optional)
- Offer DC 24V for two wires. (≤25mA) (Transducer excitation supply Optional)
- Max. four setting and contact point.
- Man-machine interface, easy to operate.



1. MODEL: PF-M-2 - [] - [] - [] - [] X = 0 (non-alarm), X = 1 (one-alarm)
X = 2 (two-alarm), X = 3 (three-alarm), X = 4 (four-alarm)

NO	Input Type	NO	DCV (ACV)	NO	DCA (ACA)	NO	Potentiometer	NO	Pt-100(RTD)	NO	Transmitter	NO	Output Range	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	N	None	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	1	DC 4-20mA	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	2	DC 1-5V	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	3	DC 4-20mA	4	DC 110V
E	Transmitter	15	0-10V	25	0-199.99mA	35	10-90%	45	-200.0~850.0°C	59	SPECIFIED	4	DC 1-5V	5	DC 220V
F	Pt-100 (RTD)	16	0-35V	26	0-1.9999A	39	SPECIFIED	49	SPECIFIED			7	RS-232	6	AC 90~260V
G	Load Cell	17	0-600.0V	27	0-5.000A						• 51-52 non-exciting DC 24V	8	RS-485	9	SPECIFIED
O	SPECIFIED	18	0-1000.0V	28	0-10.000A						• 53-54 exciting DC24V (≤25mA)	9	SPECIFIED		
		19	SPECIFIED	29	SPECIFIED										

2. Specification

- Aux. power supply : AC 110 & 220V ± 20% (50 or 60 Hz) (Optional DC 24V or 48V or 110V or 220V switching AC90~260V ±10%)
- Measuring accuracy (23±5°C) : 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 : 0.04~9.99 second adjustable
- Readout range (Compare range) (Auto-zero range) : 0 ~ ±19999 digit adjustable
- Compare hysteresis range : 0~19999 digit adjustable
- Alarm delay time : 0~99.9 second adjustable
- Alarm action : "Hi" or "Lo" adjustable
- Relay contact output : AC 250V~3A, DC 30V~5A
- Transmit baud rate : 2400bps, 4800bps, 9600bps, 19200bps
- Transmit format : <8,N,1>, <8,N,2>, <8,E,1>, <8,O,1>
- Analog output resolution : 15 bits DAC
- Output drive capability (analog output) : ≤10mA for voltage mode ≤10V for current mode
- Output ripple (p-p) : <0.1% F.S.
- Response time : ≤100ms (0-90%)
- Temp. coefficient : 50 ppm/°C (0~50°C)
- Display : Red high efficiency LEDs high 14.22mm (0.56")
- Parameter setting : Touch switches
- Memory type : Non-volatile EEPROM memory
- Dielectric strength : 2KVac/1 min. (power/input & output) 1.6KVdc (input/output)
- 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

