

MICROPROCESS DIGITAL METER RELAY (one-alarm)



FEATURES

- Measuring DCA, DCV, ACA, ACV, Potentiometer, Transmitter, Pt-100, Load Cell, etc...
- Accuracy 0.1% F.S. ± 1 digit (DC, AC (TRMS), Potentiometer, Transmitter, Load Cell, Pt-100)
- Programmable rate -9999 to 9999 digit
- Decimal point can be modified
- One alarm, compare hysteresis, alarm delay, start delay function
- Auto zero function

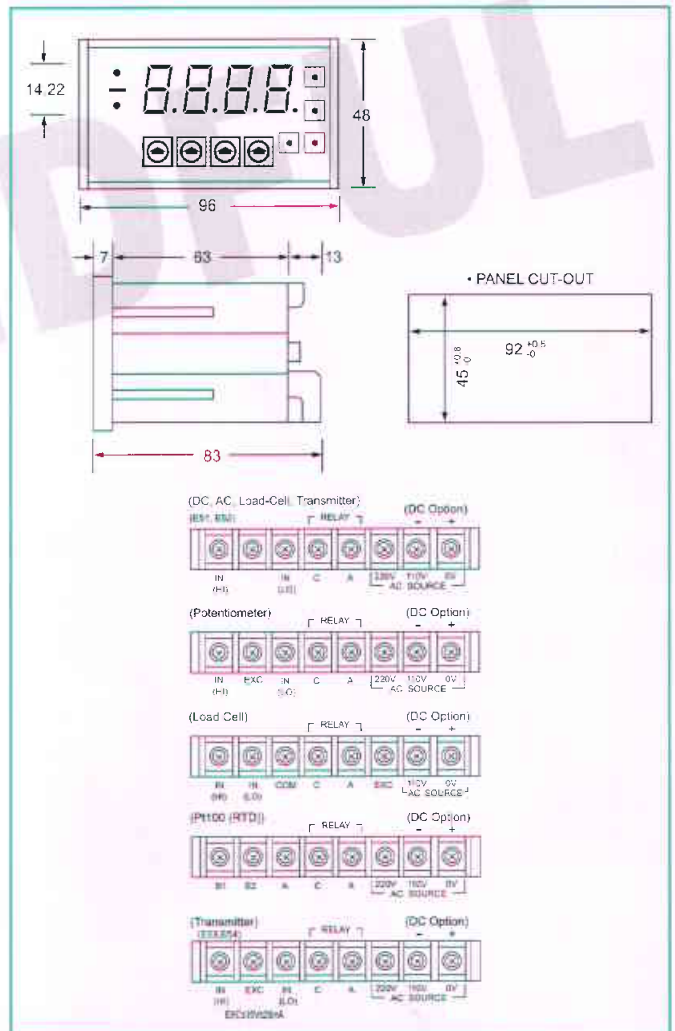
1. MODEL: PF-M-0 - [] - [] - [] \rightarrow X = 0 (non-A and B and C), X = 1 (only A) Note: A: deadband and deadband delay
X = 2 (only A + B), X = 3 (A + B + C) B: alarm delay
C: compare hysteresis

NO	Input Type	NO	DCV (ACV)	NO	DCA (ACA)	NO	Potentiometer	NO	Pt-100	NO	Transmitter	NO	Load Cell	NO	Aux. Power
A	DC	11	0-50.00 mV	21	0-9.999 μ A	31	0-10%	41	-50.0~50.0°C	51	DC 4-20mA	61	DC 2.0mV/V	1	AC 110/220V
B	AC (RMS)	12	0-99.99 mV	22	0-99.99 μ A	32	0-50%	42	-100.0~100.0°C	52	DC 1-5V	62	DC 3.0mV/V	2	DC 24V
C	AC (TRMS)	13	0-999.9 mV	23	0-2.000 mA	33	0-100%	43	-200.0~200.0°C	53	DC 4-20mA	63	SPECIFIED	3	DC 48V
D	Potentiometer	14	0-5 V	24	0-20.00 mA	34	5-95%	44	-200.0~400°C	54	DC 1-5V	* non-exciting Voltage	4	DC 110V	
E	Transmitter	15	0-10 V	25	0-200.0 mA	35	10-90%	45	-200~850°C	55	SPECIFIED		5	DC 220V	
F	Pt-100 (RTD)	16	0-35 V	26	0-2.000 A	36	SPECIFIED	46	SPECIFIED	• 51-52 non-exciting DC 15V • 53-54 exciting DC 15V (≤ 25 mA)	6		AC 90~260V		
G	Load Cell	17	0-600 V	27	0-5.000 A	• Three wire connection • Exciting voltage DC 5V (≤ 5 mA)	• Three wire connection	57	SPECIFIED		9		SPECIFIED		
O	SPECIFIED	18	0-1000 V	28	0-9.999 A						• $\pm 20\%$ of rate, less 3.5VA for AC input • $\pm 20\%$ of rate, less 3WATT for DC input				
		19	SPECIFIED	29	SPECIFIED										

2. Specification

- Aux. power supply : AC110 & 220V $\pm 20\%$ (50 or 60Hz)
(Optional DC 24V or 48V or 110V or 220V switching AC100~240V $\pm 10\%$)
- Measuring accuracy (23 $\pm 5^\circ$ C) : 0.1% F.S. ± 1 digit (DC, AC (TRMS)),
Pt-100, Transmitter,
0.15% F.S. ± 1 digit (AC (RMS))
- Sampling time : 0.1~9.9 second adjustable
- Readout range : -9999~9999 (adjustable)
(compare range)
(auto-zero range)
- Parameter setting : Touch switches
- Compare setting methods: Digital rotary switches
- Compare hysteresis : 0~999 digit adjustable
(deadband)
- Alarm delay time : 0~99.9 second adjustable
(deadband delay time)
- Alarm action : "Hi" or "Lo" adjustable
- Display : Red high efficiency LEDs high 14.22mm (0.56")
- Polarity display : When input is negative, "-" displayed
- Relay contact output : AC 250V~3A, DC30V~5A
- Temp. coefficient : 50ppm/ $^\circ$ C (0-50 $^\circ$ C)
- Dielectric strength : 1.5KVac/1min. (input/output)
- Operating condition : 0~50 $^\circ$ C (20 to 90% RH non-condensed)
- Storage condition : 0~70 $^\circ$ C (20 to 90% RH non-condensed)

3. Outside dimension and connection diagram



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...)

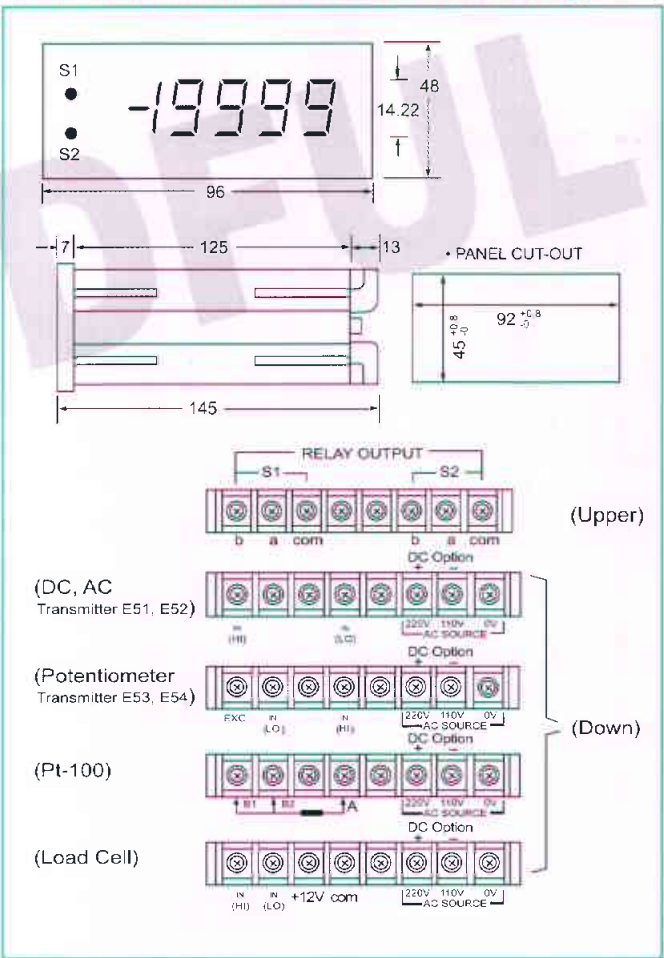
1. MODEL: PF-M-1 - [Color Selection]

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	55	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		
O	SPECIFIED	18	0-1000.0V	28	0-10.000A							• ±20% of rate, less 4.5VA for AC input • ±20% of rate, less 4WATT for DC input			
		19	SPECIFIED	29	SPECIFIED										

2. Specification

- Aux. power supply : AC110 & 220V $\pm 20\%$ (50 or 60Hz) (Optional DC 24V or 48V or 110V or 220V switching AC100~240V $\pm 10\%$)
- 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 : 0 ~ ± 19999 digit adjustable (compare range) (auto-zero range)
- Deadband range : 0 ~ 19999 digit adjustable (compare hysteresis)
- Alarm delay time : 0 ~ 99 second adjustable (deadband delay time)
- 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/ $^{\circ}$ C (0~50 $^{\circ}$ C)
- Dielectric strength : 2KVac / 1min. (input/power)
- Surge test : ANSI C37.90a/1974, DIN-IEC255-4 impulse voltage 4KV (1.2 x 50 μ s)
- Operating condition : 0~50 $^{\circ}$ C (20 to 90% RH non-condensed)
- Storage condition : 0~70 $^{\circ}$ C (20 to 90% RH non-condensed)

3. Outside dimension and connection diagram



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 $\sim \pm 19999$ 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. (≤ 25 mA) (Transducer excitation supply Optional)
- Max. four setting and contact points.
- Man-machine interface, easy to operate.

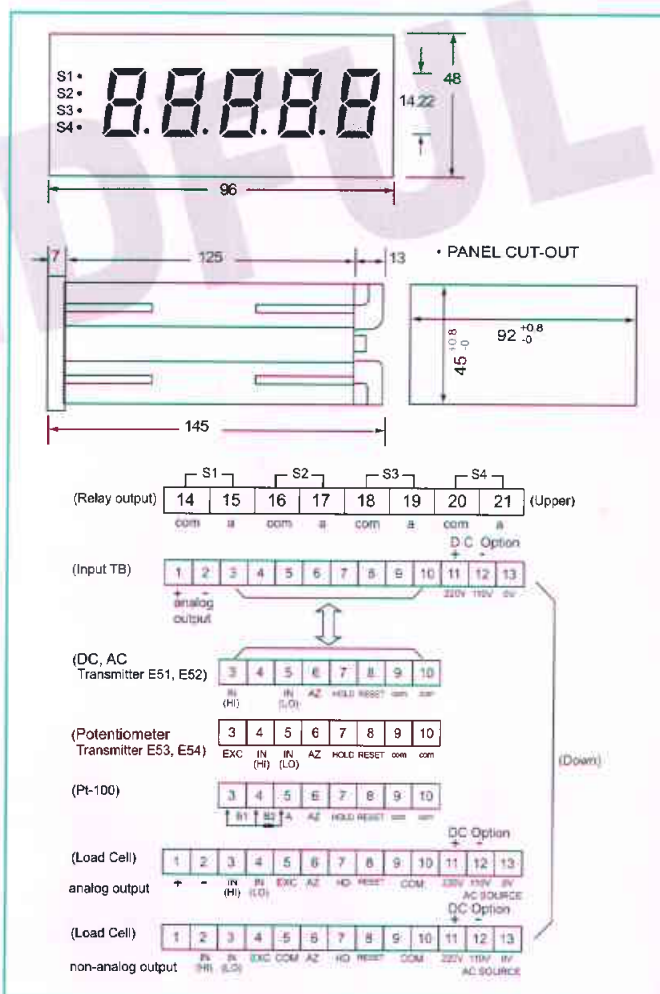
1. MODEL: PF-M-2 - ■ ■ ■ ■ ☒ X = 0 (non-alarm), X = 1 (one-alarm)
X = 2 (two-alarm), X = 3 (three-alarm), X = 4 (four-alarm)

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	0-19.999 μ A	31	0-10%	41	-50.0 \sim -50.0 $^{\circ}$ C	51	DC 4-20mA	N	None	1	AC 110/220V
B	AC (RMS)	12	0-199.99mV	22	0-199.99 μ A	32	0-50%	42	-100.0 \sim -100.0 $^{\circ}$ 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 \sim -200.0 $^{\circ}$ 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 \sim -400.0 $^{\circ}$ 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 \sim -850.0 $^{\circ}$ C	55	SPECIFIED	4	DC 1-5V	5	DC 220V
F	Pt-100 (RTD)	16	0-35V	26	0-1.9999A	36	SPECIFIED	46	SPECIFIED	56	SPECIFIED	7	RS-232	6	AC 90 \sim 260V
G	Load Cell	17	0-600.0V	27	0-5.000A	• Three wire connection • Exciting voltage DC 5V (≤ 5 mA)	• Three wire connection	• 51-52 non-exciting DC 24V • 53-54 exciting DC 24V (≤ 25 mA)	• 1-2 non-isolating • 3-4 isolating	8	RS-485	9	SPECIFIED	7	• $\pm 20\%$ of rate, less 6.5VA for AC input • $\pm 20\%$ of rate, less 5WATT for DC input
Q	SPECIFIED	18	0-1000.0V	28	0-10.000A					9	SPECIFIED	9	SPECIFIED	9	
		19	SPECIFIED	29	SPECIFIED										

2. Specification

- Aux. power supply : AC 110 & 220V $\pm 20\%$ (50 or 60 Hz)
(Optional DC 24V or 48V or 110V or 220V switching AC100 \sim 240V $\pm 10\%$)
- Measuring accuracy (23 $\pm 5^{\circ}$ 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 \sim 9.99 second adjustable
- Readout range (compare range) (auto-zero range) : 0 $\sim \pm 19999$ digit adjustable
- Compare hysteresis range : 0 \sim 19999 digit adjustable
- Alarm delay time : 0 \sim 99.9 second adjustable
- Alarm action : "Hi" or "Lo" adjustable
- Relay contact output : AC 250V \sim 3A, DC 30V \sim 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) : ≤ 10 mA for voltage mode
 ≤ 10 V for current mode
- Output ripple (p-p) : <0.1% F.S.
- Response time : ≤ 100 ms (0 \sim 90%)
- Temp. coefficient : 50 ppm/ $^{\circ}$ C (0 \sim 50 $^{\circ}$ 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 \sim 50 $^{\circ}$ C (20 to 90% RH non-condensed)
- Storage condition : 0 \sim 70 $^{\circ}$ C (20 to 90% RH non-condensed)

3. Outside dimension and connection diagram



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 -1999 to 9999 digit
- Decimal point can be modified
- 14 bits DAC analog output function (non-isolating)
- Auto zero function
- Man-machine interface, easy to operate (readout range, output range, decimal point, alarm function etc...)
- No setting and compare error (use pushwheel digital switches setting and digit compare)

1. MODEL: PF-M-5A - - - X = 0 (non-A and B and C), X = 1 (only A)
PF-M-5B - - - X = 2 (only A + B), X = 3 (A + B + C)

Note: A: deadband and deadband delay
B: alarm delay
C: compare hysteresis

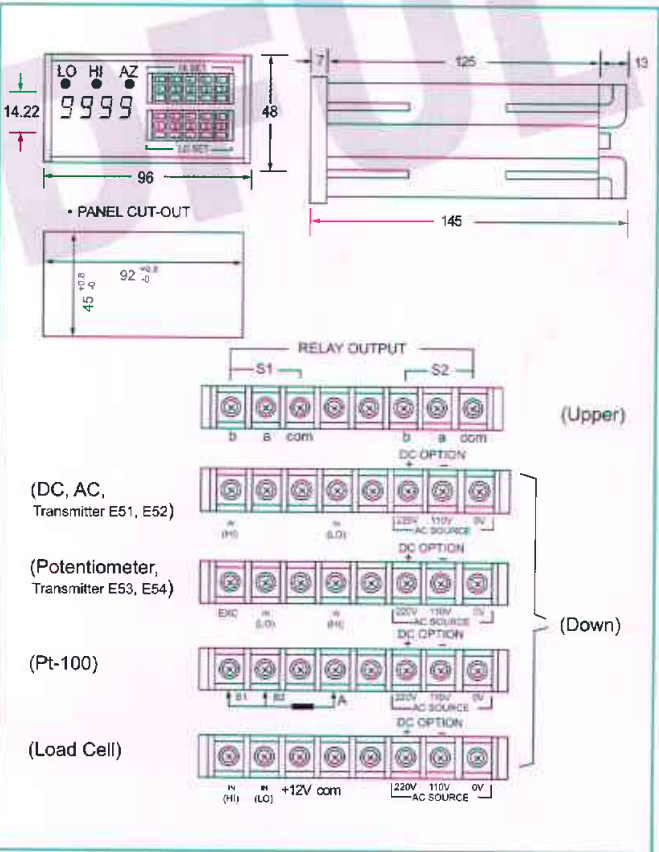
NO	Input Type	NO	DCV (ACV)	NO	DCA (ACA)	NO	Potentiometer	NO	Pt-100(RTD)	NO	Transmitter	NO	Output Range	NO	Aux. Power
A	DC	11	0-50.00 mV	21	0-9.999 μ A	31	0-10%	41	0-50.0°C	51	DC 4-20mA	N	None	1	AC 110/220V
B	AC (RMS)	12	0-99.99 mV	22	0-99.99 μ A	32	0-50%	42	0-100.0°C	52	DC 1-5V	E	DC 0-5V	2	DC 24V
C	AC (TRMS)	13	0-999.9 mV	23	0-2.000 mA	33	0-100%	43	0-200.0°C	53	DC 4-20mA	F	DC 1-5V	3	DC 48V
D	Potentiometer	14	0-5 V	24	0-20.00 mA	34	5-95%	44	0-400.0°C	54	DC 1-5V	H	DC 0-10V	4	DC 110V
E	Transmitter	15	0-10 V	25	0-200.0 mA	35	10-90%	45	0-850.0°C	55	SPECIFIED	I	DC 2-10V	5	DC 220V
F	Pt-100 (RTD)	16	0-35 V	26	0-2.000 A	36	SPECIFIED	46	SPECIFIED	56	SPECIFIED	P	DC 0-20mA	6	AC 90-260V
G	*Load Cell	17	0-600 V	27	0-5.000 A	37	Three wire connection	47	Three wire connection	57	51-52 non-exciting DC 24V	Q	DC 4-20mA	9	SPECIFIED
D	SPECIFIED	18	0-1000 V	28	0-9.999 A	38	Exciting voltage DC 5V (≤ 5 mA)	48	Exciting voltage DC 5V (≤ 5 mA)	58	53-54 exciting DC 24V (≤ 25 mA)	R	SPECIFIED		• $\pm 20\%$ of rate, less 4.5VA for AC input • $\pm 20\%$ of rate, less 4WATT for DC input
		19	SPECIFIED	29	SPECIFIED										

note: * non-output function

2. Specification

- Aux. power supply : AC 110 & 220V $\pm 20\%$ (50 or 60 HZ)
(Optional DC 24V or 48V or 110V or 220V switching AC100~240V $\pm 10\%$)
- Measuring accuracy (23 $\pm 5^\circ$ 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 (output range) : -1999 ~ 9999 digit adjustable
- Setting range : 0 ~ 9999 digit adjustable
- Parameter setting : Touch switches
- Compare setting methods : Pushwheel digital switches
- Compare hysteresis (deadband) : 0~999 digit adjustable
- Alarm delay time (deadband delay time) : 0~99.9 second adjustable
- Alarm action : "Hi" or "Lo" adjustable
- Display : Red high efficiency LEDs high 14.22mm (0.56")
- Relay contact output : AC 250V~3A, DC 30V~5A
- Analog output resolution : 14 bits DAC (PWM)
- Output drive capability : ≤ 10 mA for voltage mode
 ≤ 10 V for current mode
- Output ripple (p-p) : $< 0.1\%$ F.S.
- Response time : 100ms (0-90%)
- Temp. coefficient : 50 ppm/ $^\circ$ C (0~50 $^\circ$ C)
- Dielectric strength : 2KVac/1 min. (power/input & output)
- Operating condition : 0 ~ 50 $^\circ$ C (20 to 90% RH non-condensed)
- Storage condition : 0~70 $^\circ$ C (20 to 90% RH non-condensed)

3. Outside dimension and connection diagram



DIN72x72 MICROPROCESS DIGITAL METER RELAY



FEATURES

- Measuring DCA, DCV, ACA, ACV, Potentiometer, Transmitter, Load Cell, Pt-100, Thermocouple etc....)
- Accuracy 0.1%F.S.±1 digit
- Programmable rate -1999 to 9999 digit
- Decimal point can be modified
- Alarm, compare hysteresis, alarm delay, start delay function
- Auto zero function
- Up and down key setting, easy to operate

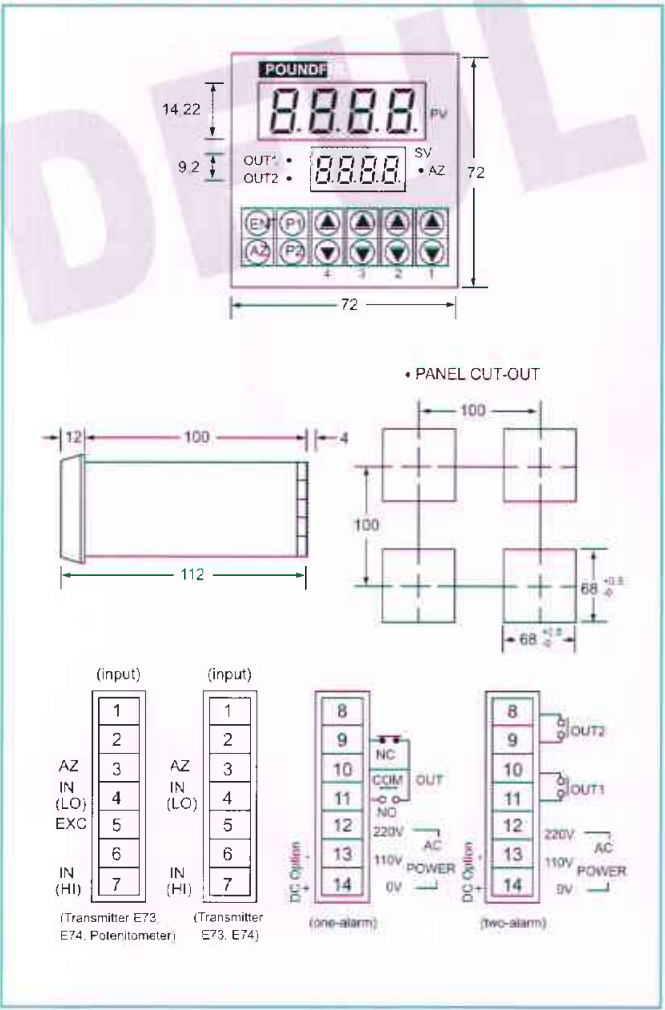
1. MODEL: PF-M-6A- [] [] [] [] - [X] (one-alarm) note: X=0 (non-A and B and C), X=1 (only A), A: deadband and deadband delay
PF-M-6B- [] [] [] [] - [X] (two-alarm) X=2 (only A+B), X=3 (A+B+C) B: alarm delay
C: compare hysteresis

NO	Input Type	NO	DCV (ACV)	NO	DCA (ACA)	NO	Potentiometer	NO	Pt-100	NO	Thermocouple	NO	Load Cell	NO	Transmitter	NO	Aux. Power
A	DC	11	0-50.00 mV	21	0-9.999μA	31	0-10%	41	0-50°C	51	0-760°C(J)	61	2.0mV/V	71	DC 4-20mA	1	AC 110/220V
B	AC(RMS)	12	0-99.99 mV	22	0-99.99μA	32	0-50%	42	0-100°C	52	0-1360°C(K)	62	3.0mV/V	72	DC 1-5V	2	DC 24V
C	AC(TRMS)	13	0-999.9 mV	23	0-2.000mA	33	0-100%	43	0-200°C	53	0-400°C(T)	63	• 2.0mV/V	73	DC 4-20mA	3	DC 48V
D	Potentiometer	14	0-5 V	24	0-20.00mA	34	5-95%	44	0-400°C	54	0-1000°C(E)	64	• 3.0mV/V	74	DC 1-5V	4	DC 110V
E	Transmitter	15	0-10 V	25	0-200.0mA	35	10-90%	45	0-850°C	55	0-1760°C(R)	65	SPECIFIED	75	SPECIFIED	5	DC 220V
F	Pt-100 (RTD)	16	0-35 V	26	0-2.000A	39	SPECIFIED	49	SPECIFIED	56	0-1750°C(S)	• Exciting voltage DC 12V (≤30mA)	• 71-72 non-exciting • 73-74 exciting DC24V (≤25mA)	9	SPECIFIED	• ±20% of rate, less 4.5VA for AC input • ±20% of rate, less 4WATT for DC input	
G	Thermocouple	17	0-600 V	27	0-5.000A	• Three wire connection	• Three wire connection	57	0-1800°C(B)	• Pt-100 CJC traceability ≤ ±0.5° < (0-70°C)							
H	Load Cell	18	0-1000 V	28	0-9.999A	• Exciting voltage DC 5V (≤5mA)											
O	SPECIFIED	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 AC100-240V±10%)
- Measuring accuracy : 0.1% F.S. ±1 digit (DC, AC(TRMS)), Potentiometer, Load Cell, Pt-100, Transmitter) 0.15%F.S.±1digit (AC (RMS)) 0.2%F.S.±0.5°C (Thermocouple)
- Sampling time : 0.04 second
- Setting methods : Touch switches
- Readout range : -1999 ~ 9999 digit adjustable (compare range) (auto range) (auto-zero range)
- Compare hysteresis : 0 ~ 9999 digit adjustable
- Alarm action : "Hi" or "Lo" adjustable
- Alarm delay time : 0 ~ 99.99 second adjustable
- Display : Red high efficiency LED's high 14.22 mm (.56") (readout value) Green high efficiency LEDs high 9.2 mm (.36") (preset value)
- Polarity display : When input is negative, "-" displayed
- Relay contact output: AC250V ~ 3A, DC30V ~ 5A
- Temp. coefficient : 50ppm/°C (0 ~ 50°C)
- Dielectric strength : 2KVac/1min. (input/output/power)
- 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



MICROPROCESS DIGITAL METER RELAY OF PLUG-IN



FEATURES

- Input type DCA, DCV, ACA, ACV, Potentiometer, Transmitter, Pt-100, Thermocouple, etc...
- Accuracy 0.05% F.S. ± 1 digit (DC Transmitter)
- Programmable rate -1999 to 9999 digit
- Dual setting and contact point
- Display value depend on the mean input several times can be modified (1 to 9 times)
- Man-machine interface, easy to operate (readout range, decimal point, alarm function, deadband etc. ...)

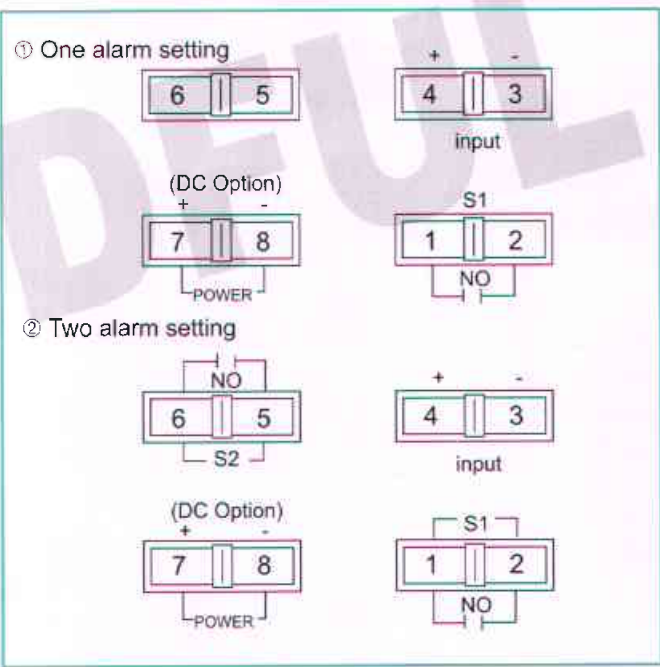
1. MODEL: PF-MA - [] - [] [X] \rightarrow X = 1 (one-alarm setting), X = 2 (two-alarm setting)

NO	Input Type	NO	DCV (ACV)	NO	DCA (ACA)	NO	Potentiometer	NO	Pt-100	NO	Transmitter	NO	Thermocouple	NO	Aux. Power
A	DC	11	0~50.00 mV	21	0~9.999 μ A	31	0~10%	41	-50.0~50.0°C	51	DC 4~20mA	6B	200~1800°C	1	AC 110V
B	AC (RMS)	12	0~99.99 mV	22	0~99.99 μ A	32	0~90%	42	-100.0~100.0°C	52	DC 10~50mA	6E	-200~400°C	2	AC 220V
C	AC (TRMS)	13	0~999.9 mV	23	0~2.000 mA	33	0~100%	43	-199.9~199.9°C	53	DC 1~5V	6J	-200~760°C	3	DC 24V
D	Potentiometer	14	0~5 V	24	0~20.00 mA	34	5~95%	44	-199.9~400.0°C	54	DC 0~10V	6K	-200~1370°C	4	DC 48V
E	Transmitter	15	0~10 V	25	0~200.0 mA	35	10~90%	45	-199.9~850.0°C	59	SPECIFIED	6R	0~1760°C	5	DC 110V
F	Pt-100 (RTD)	16	0~35 V	26	0~2.000 A	39	SPECIFIED	49	SPECIFIED			6S	0~1750°C	6	DC 220V
G	Thermocouple	17	0~600.0 V	27	0~5.000 A		• only one alarm setting		• two wire connection (two alarm setting)			6T	-200~400°C	7	AC 90~260V
O	SPECIFIED	18	0~999.9 V	28	0~9.999 A		• Exciting voltage DC 5V (≤ 5 mA)		• Three wire connection (one alarm setting)				• only one alarm setting	9	SPECIFIED
		19	SPECIFIED	29	SPECIFIED								• °C or °F, 1 or 0.1 degree can be modified		• $\pm 20\%$ of rate, less 3.5VA for AC input
															• $\pm 20\%$ of rate, less 3WATT for DC input

2. Specification

- Aux. power supply : AC110 or 220V $\pm 20\%$ (50 or 60Hz) (Optional DC 24V or 48V or 110V or 220V switching AC100~240V $\pm 10\%$)
- Measuring accuracy (23 $\pm 5^\circ$ C) : 0.05% F.S. ± 1 digit (DC, Transmitter) 0.1% F.S. ± 1 digit (DC, AC(TRMS) , Pt-100, Potentiometer) 0.15% F.S. ± 1 digit (DC, AC(TRMS)) 0.2% F.S. $\pm 0.5^\circ$ C (CJC) (Thermocouple)
- Sampling time : 0.04 second adjustable
- Readout range (compare range) : -1999~9999 digit adjustable
- Compare hysteresis (deadband range) : 0~9999 digit adjustable
- Alarm delay time (deadband delay time) : 00.00~99.99 second adjustable
- Alarm action : "Hi" or "Lo" adjustable
- Over input indication : "ovEr"
- Display : Red high efficiency LEDs high 9.2mm (0.36")
- Polarity display : When input is negative, "-" displayed
- Relay contact output : AC 250V~3A, DC30V~5A
- Temp. coefficient : 50ppm/ $^\circ$ C (0~50°C)
- Dielectric strength : 2KVac/1min. (input/output)
- Operating condition : 0~50°C (humidity 20 to 90% RH non-condensed)
- Storage condition : 0~70°C (humidity 20 to 90% RH non-condensed)
- Construction : Socket/plug-in type with barrier terminals

3. Terminal connection



4. Dimension \rightarrow See transmitter dimension

MICROPROCESS LVDT METER RELAY WITH BUILT-IN TRANSMITTER



FEATURES

- Accuracy : 0.05% F.S. ± 1 digit
- High resolution : 0~19999
- 15 bit DAC programmable analog output with high or low cut
- Auto zero function (optional)
- Up to 4 alarms
- User friendly
- RS 232 / RS485 modbus RTU mode (optional)

1. MODEL: PF-MPS2-LVDT - [Color] - [Color] - [Color]

NO	Analog Output	NO	Alarm	NO	Aux. Power
N	NONE	0	NONE	1	AC 110/220V (50/60Hz)
1	DC 4~20mA	1	1 ALARM	2	DC 24V
2	DC 1~5V	2	2 ALARMS	3	DC 48V
6	DC 0~10V	3	3 ALARMS	4	DC 110V
7	RS232	4	4 ALARMS	5	DC 220V
8	RS485			6	AC 90~260V
9	SPECIFIED			9	SPECIFIED

2. Specification

- Aux. power supply : AC110 & 220V $\pm 20\%$ (50 or 60Hz)
(Optional DC 24V or 48V or 110V or 220V, Switching AC100~240V $\pm 10\%$)
- Measuring accuracy : 0.05% F.S. ± 1 digit
(23 $\pm 5^\circ\text{C}$)
- Sampling time : 0.04 ~ 9.99 second adjustable
- Readout range : 0 ~ ± 19999 digit adjustable
(compare range)
(auto-zero range)
- 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, DC30V~5A
- Transmit baud rate : 2400bps, 4800bps, 9600bps, 19200bps
- Transmit format : <8,N,1>, <8,N,2>, <8,E,1>, <8,0,1>
- Analog output resolution : 15 bits DAC
- Output drive capability : 10mA for voltage mode
(analog output) 10V for current mode
- Output ripple (p-p) : <0.1% F.S.
- Response time : $\leq 100\text{ms}$
- Temp. coefficient : 50 ppm/ $^\circ\text{C}$ (0 ~ 50 $^\circ\text{C}$)
- 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 $^\circ\text{C}$ (20 to 90% RH non-condensed)
- Storage condition : 0~70 $^\circ\text{C}$ (20 to 90% RH non-condensed)

* Refer page 97 for LVDT sensor selection

3. Outside dimension and connection diagram

