

# 4 1/2 DIGITAL METER RELAY

## MODEL DMR-41 DMR-42



### FEATURES

- 4 1/2 Display (19999)
- Measuring DCV, DCA, ACV, ACA, Frequency, Ohm.
- Output DC 24V (Option).
- Hi or Lo Setting Delay 0~30sec. (Option)
- DIN Size 96 × 48mm.

### SPECIFICATIONS

- Display** ..... 4 1/2 (19999) 0.36" (9.1mm), Red LED  
**Accuracy** ..... DC  $\pm 0.03\%$  RD.  $\pm 2$  digits  
                     AC  $\pm 0.1\%$  F.S.  $\pm 2$  digits  
                     Hz  $\pm 0.1\%$  RD.  $\pm 2$  digits  
                     Ohm  $\pm 0.1\%$  RD.  $\pm 2$  digit  
**Conversion rate (about)** ..... 3/sec. (DC), 1/sec. (AC, Hz)  
   6/sec. (Ohm)  
**Over input indication** ..... "0000" flash  
**Polarity** ..... Only "-" Display  
**Frequency range** ..... 45~400Hz for AC range  
**Operating temp.** ..... 0~60°C  
**Storage temp.** ..... -10~70°C  
**Temp. coefficient** .....  $\leq 100\text{PPM}/^\circ\text{C}$  ( $\leq 60\text{PPM}/^\circ\text{C}$ , 25°C  $\pm 10^\circ\text{C}$ )  
**Max. relative humidity** ..... 95%  
**Dielectric strength** ..... AC 2 KV/1 min. (input/power/case)  
**Surge test** ..... 4 KV/1.2×50 $\mu$ s, IEC 255-4  
**Aux. power** ..... AC 115V/230V  $\pm 10\%$ , 50/60 Hz  
   DC 24V, 48V, 110V  $\pm 20\%$  (option)  
**Setting Range** ..... 19999 or  $\pm 9999$   
**Relay Contact Output** ..... AC 240V/4 A. DC 30V/5A  
**Comparative Condition** ..... Indication > Setpoint  $\rightarrow$  Hi LED on  
   Indication < Setpoint  $\rightarrow$  Lo LED on (DMR-41 series)  
   Indication > Hi setting  $\rightarrow$  Hi LED on  
   Lo setting < Indication < Hi Setting  $\rightarrow$  Go LED on indication < Lo setting  $\rightarrow$  Lo LED on (DMR-42 series)  
**Power consumption** ..... AC 3.5VA, DC 3W  
**Weight (about)** ..... 490g

ORDER CODE	RANGE	INPUT IMPEDANCE	INPUT PROTECTION
V1	0~199.99mV	$\geq 10\text{M}\Omega$	100V
V2	0~1.9999V	$\geq 10\text{M}\Omega$	100V
V3	0~19.999V	$\geq 1\text{M}\Omega$	500V
V4	0~199.99V	$\geq 1\text{M}\Omega$	750V
V5	0~600.0V	$\geq 1\text{M}\Omega$	750V
A1	0~199.99 $\mu$ A	$\geq 1\text{K}\Omega$	100mA
A2	0~1.9999mA	$\geq 100\Omega$	300mA
A3	0~19.999mA	$\geq 10\Omega$	500mA
A4	0~199.99mA	$\geq 1\Omega$	1A
A5	0~1.9999A	$\geq 0.1\Omega$	5A
A6	0~10.000A	$\geq 0.01\Omega$	15A
E1	DC 4~20mA	$\geq 20\Omega$	500mA
E2	DC 0~10V	$\geq 1\text{M}\Omega$	500V
E3	DC 1~5V	$\geq 1\text{M}\Omega$	500V
E4	DC 0~50mV	$\geq 10\text{M}\Omega$	100V
E5	DC 0~200mV	$\geq 10\text{M}\Omega$	100V
E6	AC 0~5A	$\geq 0.01\Omega$	10A
ORDER CODE	RANGE	TEST CURRENT	
R1	0~199.99 $\Omega$	10mA	
R2	0~1.9999K $\Omega$	1mA	
R3	0~19.999K $\Omega$	100 $\mu$ A	
R4	0~199.99K $\Omega$	10 $\mu$ A	
R5	0~1.9999M $\Omega$	1 $\mu$ A	

### ORDERING INFORMATION

ONE SETTING DMR-41            (When select E1 ~ EY, P1 ~ PY Please Remark Display Range)  
TWO SETTING DMR-42           (When select V1 ~ V5, A1 ~ A6 the switch have "±" Max. "± 9999")  
  (When select DC 24V/30mA Output "GO" is omitted)

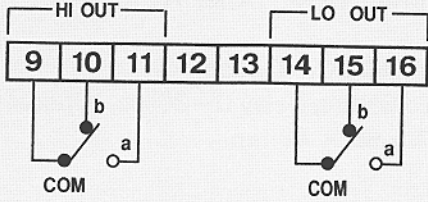
NO.	INPUT TYPE	NO.	VOLTAGE	NO.	CURRENT	NO.	ANALOG	NO.	FREQUENCY	NO.	RESISTANCE	NO.	AUX. POWER	NO.	OUTPUT
D	DC	V1	0~199.99mV	A1	0~199.99 $\mu$ A	E1	DC 4~20mA	P1	0~100Hz	R1	0~199.99 $\Omega$	1	AC 115/230V	1	DC 24V/30mA
A	AC	V2	0~1.9999V	A2	0~1.9999mA	E2	DC 0~10V	P2	0~200Hz	R2	0~1.9999K $\Omega$	A	DC 24V	N	NONE
T	AC TRMS	V3	0~19.999V	A3	0~19.999mA	E3	DC 1~5V	P3	0~1KHz	R3	0~19.999K $\Omega$	B	DC 48V		
O	ANALOG	V4	0~199.99V	A4	0~199.99mA	E4	DC 0~50mV	P4	0~10KHz	R4	0~199.99K $\Omega$	C	DC 110V	NO	SET DELAY
F	FREQUENCY	V5	0~600.0V	A5	0~1.9999A	E5	DC 0~200mV	P5	0~50KHz	R5	0~1.9999M $\Omega$	Y	OPTION	A	HI 0~30sec.
R	RESISTANCE	VY	OPTION	A6	0~10.000A	E6	AC 0~5A	PY	OPTION	RY	OPTION			B	HI. LO 0-30sec.
				AY	OPTION	EY	OPTION	I/P	LEVEL 2~30V					N	NONE

# 4 1/2 DIGITAL METER RELAY

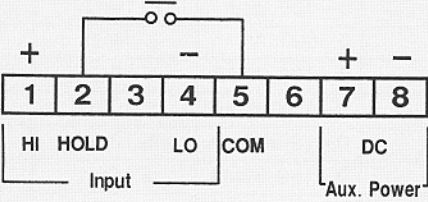
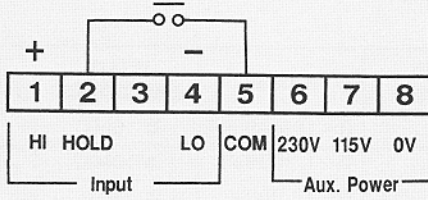
## MODEL DMR-41 DMR-42

### CONNECTION DIAGRAMS

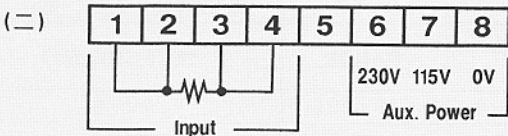
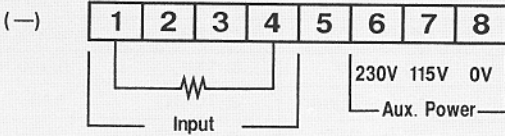
#### UPPER



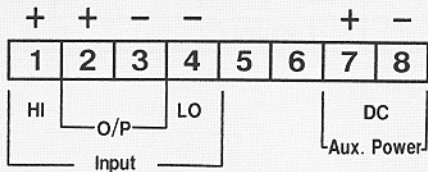
DMR-41D, 41A, 41T, 410, 41F



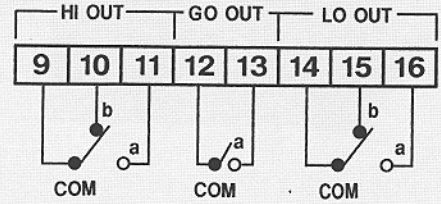
DMR-41R



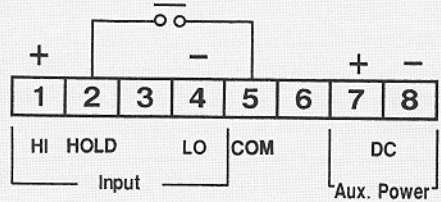
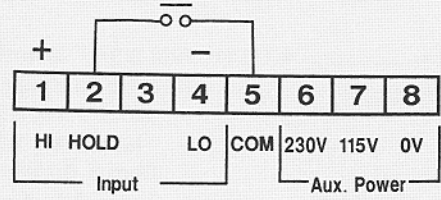
#### DC24V OUTPUT (OPTION)



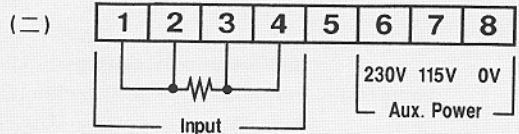
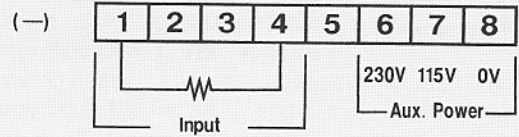
#### UPPER



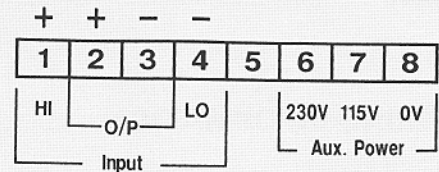
DMR-42D, 42A, 42T, 420, 42F



DMR-42R



#### DC24V OUTPUT (OPTION)



### DIMENSIONS (UNIT:mm)

