0Microprocessor Thermocouple & Setting Digital Meter

MODEL **DMT**

Features:

- Output/Setting Range User Selectable
- Dual Aux. Power 110/220V AC
- High Accuracy 0.15% FS + 0.3℃
- Analog or Digital RS-485 Output

Ordering : DMT — □ — □ — □ — □

Input Signal		Setting Function		Output Singnal		Aux. Power	
A	K Type.....-270～1370℃ / -520～2500℉	A	Hi - Lo Setting	A	0 ～ 10mA	A	AC 110/220V (Dual Power)
B	E Type.....-270～800℃ / -520～1500℉	B	Hi - Hi Setting	B	0 ～ 20mA		
C	J Type.....-210～760℃ / -410～1300℉			C	4 ～ 20mA	C	DC 24V
D	T Type.....-210～400℃ / -410～760℉	C	Lo - Lo Setting	D	0 ～ 5V	D	DC 110V
E	R Type.....0～1700℃ / 32～3100℉			E	1 ～ 5V	E	DC 125V
F	S Type.....0～1700℃ / 32～3100℉	N	None	F	RS-485	F	AC/DC 85 ～ 265V
G	B Type.....0～1750℃ / 32 ～3200℉			N	None		
Y	Other			Y	Other		

Specify code number and variable.
Code number: model – input – setting function – output – power
(e.g. DMT – E – A – B – A)

SPECIFICATIONS:

INPUT:

Input Resistance : ≧20MΩ.

OUTPUT & DISPLAY:

DC Current: 0 – 20 mA DC
Load resistance drive: output drive 10 VDC maximum

Output	Load Resistance
0 – 10 mA :	1000 Ω
0 – 20 mA :	500 Ω
4 – 20 mA :	500 Ω

DC Voltage: 0 – 10 V DC
Load resistance drive: output drive 5 mA maximum

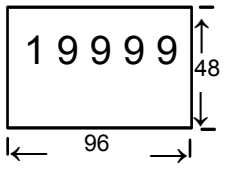
Output	Load Resistance
0 – 5 V :	1 KΩ
1 – 5 V :	1 KΩ
0 – 10 V :	2 KΩ

Output Response Time : ≦1 Sec.
Digital Output Load : RS-485 Output, 1200,2400,4800,9600,19200 Baud Rate, User Selectable.
Display Range : 0.56" Super Rate LED 4-1/2, 5 Digits, ±19999 Counts, Resolution 1℃, ℃ or ℉ User Selectable.

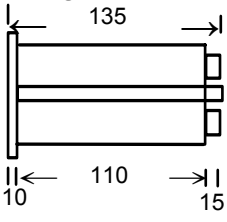
INSTALLATION & PERFORMANCE:

Accuracy : 0.2%FS + 0.3℃ at 23℃±3℃.
Break Detection : 19999 Flash.
CJC : ≦0.03℃/℃, Within 0 ～ 40℃.
Setting Function : Dual Setting & Contact Points, Setting Function User Selectable.
Setting Range : ±19999 Counts User Selectable.
Dead Band : 0 ～ 9999 Counts User Selectable.
Time Delay : 0 ～ 99 Sec. User Selectable.
SPDT Capacity : AC 120V 5A, 250V 3A, DC 24V 3A.
Stability : ≦0.2%/Year.
Temperature Coefficient : ≦100ppm / ℃ From 0 ～ 60℃.
Operating Condition : －10℃ ～ ＋55℃ 20 ～ 95% RH Non-Condensed.
Storage Condition : －40℃ ～ ＋75℃ 20 ～ 95% RH Non-Condensed.
Power Supply : AC or DC ±20%, 50 / 60Hz.
Outline Dimension : 1/8 DIN 96W X 48H X 135D mm.
Mounting : Panel Flush Mounting.

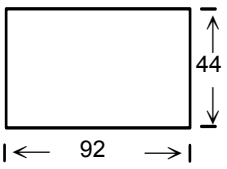
FRONT VIEW(mm)



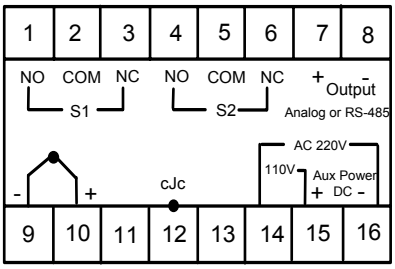
SIDE VIEW

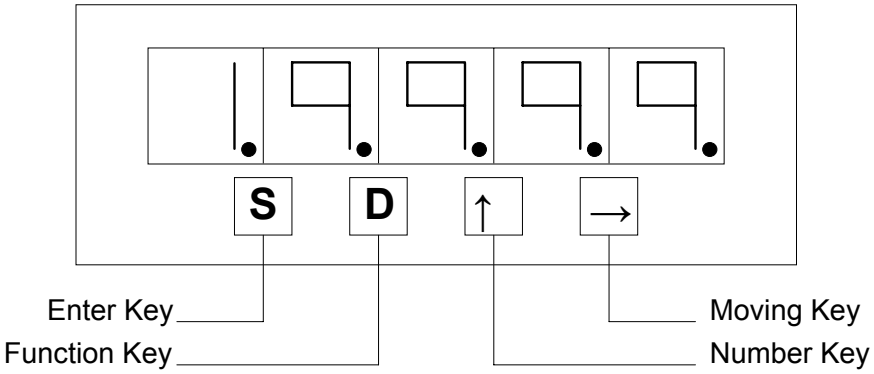


CUT OUT



Terminal Connection





The setting functions divided into two categories :
(A) Input/Output/Display Functions
(B) Contact Point S1/S2 Setting

Procedures :
(1) Press "S" key, display "00" blinking
(2) Press "D" key, enter "01"～"09" functions
(3) Press "→" key, enter "51"～"59" to setting directly after press "S"
(4) Press "→" key, to change position.
(5) Press "↑" key, to change number.

Repeat procedure (1)～(5).
Press "D" and "→" at the same time for QUIT.
PRESS "D" TO SAVE SETTING VALUE AFTER "09".

(A) Input/Output/Display Functions "02"～"09" :

02 Lowest display value(OFFSET), －19999 ～ ＋19999.
03 Highest display value(GAIN), －19999 ～ ＋19999.
04 Decomal point, change decimal point position.
05 Analog output range
Change output value 0～20mA, 4～20mA, 0～10mA, 0～5V, 1～5V, 3～5V, 0～1V.
* Display 12～20 means 4～12～20mA, display 3～5 means 1～3～5V.
06 Digital output Baud Rate
1200, 2400, 4800, 9600, 19200.
* Display 9200 means 19200.
07 Address, 01～99(PC or Host Console Address=0)
32 devices maximum for RS-485 format.
08 Output vs Display rating.
Step 1 : Press "D" setting output FULL SCALE value.
Step 2 : Press "D" again setting output ZERO value.
09 Special function : Save, Reset, Uni or Bi Directions etc..
DISPLAY "99" PRESS "D" TO SAVE "02"～"09" DATA.
66 TARE: when display showing NOSE (number destruction) or zero (0) position off setting, press"D" will erase NOSE and reset the zero (0) position.
05: Display ℉
07: Display ℃

(B) Contact Point S1/S2 Setting "51"～"59" :

51	S1 Setting	Setting Value	S1	S2	0=Lo, 1=Hi,
52	S1 Dead Band	0～9999.	0	0	Lo-Lo
53	S1 Time Delay	0～99 Sec.	1	0	Hi-Lo
54	S2 Setting	Same as 51.	0	1	Lo-Hi
55	S2 Dead Band	Same as 52.	1	1	Hi-Hi
56	S2 Time Delay	Same as 53.			

57 S1, S2 setting condition.
58 Start Delay Time 0~999 sec., input from zero, no alarming motion within the time
59 Special Function. Same as 09.