

Microprocessor Flow Digital Meter

Features:

- Output/Display Range User Selectable
- Dual Aux. Power 110/220V AC
- WH Output 1 Count / 0 ~ 100 Pulses User Selectable
- Analog/Digital RS-485 and Pulse Output
- 10 Years Power-OFF Memory for WH
- Dual Display



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Input Signal		Flow Speed Output Signal		Flow Pulse Output		Pulse Counter Setting		Aux. Power	
A	DC 4~20mA	A	DC 0~10mA	A	1Count/1Pulse	A	Hi Set	A	AC 110/220V
B	DC 4~20mA 2Wire EXT:DC 24V	B	DC 0~20mA	B	1Count/10Pulse	N	None	C	DC 22~72V AC/DC85-265V Other
		C	DC 4~20mA	C	1Count/100Pulse				
		D	DC 0~5V	D	RS 485				
		E	DC 1~5V	N	None				
		F	RS 485						
		N	None						
Y	Other	Y	Other						

SPECIFICATIONS:

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 of Flow : Open Collect Type, Output Speed 0 ~ 100 Pulses User Selectable.
Effective Range : 5 ~ 30V DC, 5 ~ 100mA.

Output Protection : Without Damage for Output Open or Short Circuit.

Digital Output Load : RS-485 Output, 1200,2400,4800,9600,19200 Baud Rate, User Selectable.

Display Range : Dual Display.

Up-Row Display Fluid Speed, 0.36" Super Rate LED 4-1/2, 5 Digits, ±19999 Counts.

Display Range User Selectable.

Down-Row Display Flow Counter, 0.36" Super Rate LED, 7 Digits, ±9999999 Counts.

INSTALLATION & PERFORMANCE:

Accuracy : 0.2%FS at 23°C±3°C.

Functions : Linear or Square root Functions.(User Selectable)

Pulse Counter Setting : Contact Point Close When Exceed Setting Point, Press Reset Button Back to Zero for Restart.

Stability : ≤0.2%/Year.

Temperature Coefficient : ≤100ppm / °C From 0 ~ 60°C.

Operating Condition : -10°C ~ +55°C 20 ~ 95% RH Non-Condensed.

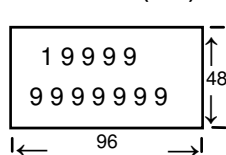
Storage Condition : -40°C ~ +75°C 20 ~ 95% RH Non-Condensed.

Power Supply : AC or DC ±20%, 50 / 60Hz.

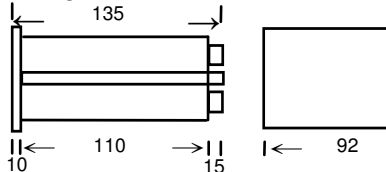
Outline Dimension : 1/8 DIN 96W X 48H X 135D mm.

Mounting : Panel Flush Mounting.

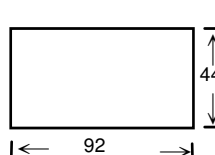
FRONT VIEW(mm)



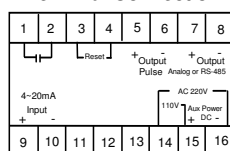
SIDE VIEW



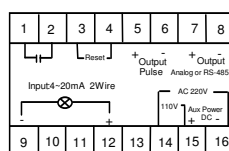
CUT OUT

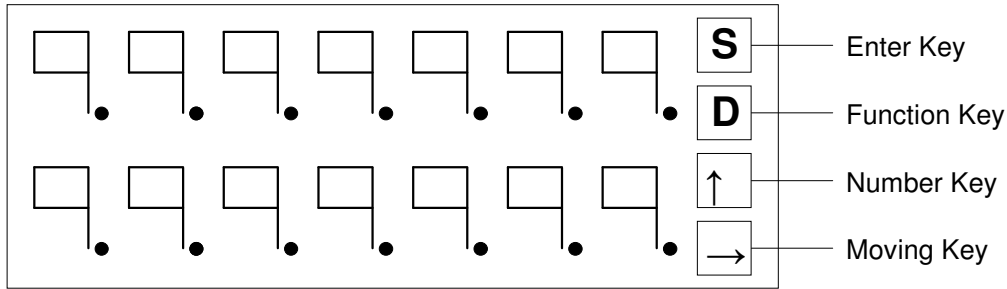


Terminal Connection



Terminal Connection





The Watt, Var, Watt/Watthour, Var/Varhour meter setting procedures as follows:

Procedures :

- (1) Press "S" key, display "00" blinking
- (2) Press "D" key, enter "01"~"09" functions
- (3) Press "→" key, to change position.
- (4) Press "↑" key, to change number.

Repeat procedure (1)~(4).

Press "D" and "→" at the same time for QUIT.

PRESS "D" TO SAVE SETTING VALUE AFTER "09".

Input/Output/Display Functions "01"~"09" :

- 01 Lowest display value(OFFSET), -19999 ~ +19999.
- 02 Highest display value(GAIN), -19999 ~ +19999.
- 03 Decimal point, change decimal point position.
- 04 Change output value (for Watt and Var only).
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.
- 05 Output range (for Watt and Var only).
Change output value when the display scale is not expect same as output value .
Example : display 0~1000W, the output can be setting 0~500W/4~20mA.
- 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 Display counts vs pulse output.
1 count/1,10,100,200, pulse. 1 count/200pulse maximum.
- 09 Special function : Save, Reset, Uni or Bi Directions etc..
DISPLAY "99" PRESS "D" TO SAVE "01"~"09" DATA.

99 SAVE: press "D" to save data and back to normal setting condition.

66 ZERO: to zero the present display, press "D" to save and back to normal setting condition.

12 QUIT: quit saving function 01~08 and 51~58, enter directly into data condition.

30: enter 30, press "D" to change numbers to 52, then use "√" to calculate, if linear, alter to 50 then press "D" to save and move out .

Example: Calculus $\sqrt{X1}=Y$

I/P:DC 4~20mA answer to O/P: DC 4~20mA

When I/P =11.84mA, calculus $(11.84 - 4) / (20 - 4) * 100\% = 49\%$, this is X1 value.

Display value is $\sqrt{49*10}=70\%$ Output value is $70\%*16 + 4mA=15.2 mA$

Procedure:

