MICROPROCESS FREQUENCY TRANSMITTER

FEATURES

- Accuracy 0.02% F.S.
- Input ranges from 0.01 Hz to 80 KHz
- 15 bit DAC analog voltage or current mode can be modified
- Decimal point can be modified
- Input pulse cut off sampling time (0.1~99.9) second can be modified
- Display value depend on the mean input pulse several times can be modified (1 to 9 times)

1. MODEL: PF-MF- ■ ■-■ - Min. - Max. Hz - N →(Non-programmable)

(Input Range)

NO	Input Type
1	Pulse (TTL) (5V)
2	Pulse (NPN) (12V)
3	Pulse (PNP) (12V)
4	AC 0.1-6V
5	AC 1-60V
9	SPECIFIED

NO	Output Ranges
B	0-1 V
E	0-5 V
F	1-5 V
H	0-10 V
I	2-10 V
J	0-1 mA
N	0-10mA
P	0-20 mA
Q	4-20 mA
R	SPECIFIED

NO	Aux. Power
1	AC 110V (50/60Hz)
2	AC 220V (50/60Hz)
3	DC 24V
4	DC 48V
5	DC 110V
6	DC 220V
7	AC 90~260V
9	SPECIFIED

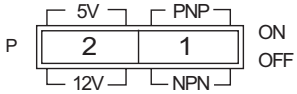
- ±20% of rate, less 3.5VA for AC input
- ±20% of rate, less 3WATT for DC input
- Switchable 110V/220V by jump internally
- ±10% of rate, less 3.5VA for AC switching input

2. Specification

- Accuracy : 0.02% F.S. (23±5°C)
- Count input type : Switch selectable current sourcing or current sinking
- Count input trigger levels : Switch selectable
  Hi bias (V_{IH}=7.5V, V_{IL}=5.5V) or
  Lo bias (V_{IH}=3.7V, V_{IL}=2.0V)
- Sampling time : 10 cycle/sec. (≥10Hz)
  f cycle/sec. (<10Hz)
- Over input indication : "ovEr"
- Readout (output) range : "0" to "99999" adjustable
- Sensor power supply : 12VDC ±10% (≤50mA)
- Output drive capability : ≤10mA for voltage mode
  ≤10V for current mode
- Output ripple (p-p) : <0.1% F.S.
- Response time : ≤200ms (0~90%) (≥10Hz)
- Temp. coefficient : 50 ppm/°C (0-50°C)
- Dielectric strength : 1.5KVac/1 min. (power/input/output)
  2000 Vdc (input/output)
- Operating condition : 0~55°C (20~95% RH non-condensed)
- Storage condition : 0~70°C (20~95% RH non-condensed)
- Construction : Socket/plug-in type with barrier terminals

3. Function switches (S1, S2)

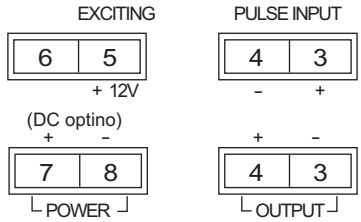
• S1 → P_1 input trigger level selection
P_2 input level selection



• S2 → P_1-P_2-P_3-P_4-P_5-P_6 output range selection
P_7-P_8 output mode: voltage/current selection

X	Output Range	O/P Range 1-2-3-4-5-6	O/P Mode 7-8
0	SPECIFIED	switching status on=1 off=0	
1	0 ~ 1V	1-0-1-1-1-0	1-1
2	0 ~ 5V	1-0-1-0-1-0	1-1
3	1 ~ 5V	1-1-1-0-1-1	1-1
4	0 ~ 10V	1-1-0-1-0-0	1-1
5	2 ~ 10V	1-1-1-1-0-1	1-1
6	0 ~ 1mA	0-1-1-1-1-0	0-0
7	0 ~ 10mA	1-0-1-0-1-0	0-0
8	0 ~ 20mA	1-1-0-1-0-0	0-0
9	4 ~ 20mA	1-1-1-1-0-1	0-0

4. Terminal connection



5. Dimension: See other transmitter dimension

6. Application

Example 1 : PF-MF-2Q2-0-1000.0Hz

Input range ..... (0-1000.0Hz)
Input level ..... (pulse (NPN))
Output range ..... (DC 4-20mA)
Power ..... (AC 220V)

Example 2 : PF-MF-1H1-1000.0-100.0Hz

Input range ..... (1000.0-100.0Hz)
Input level ..... (pulse (TTL))
Output range ..... (DC 0-10V)
Power ..... (AC 110V)