

Isolated DC Signal Multiplier

MT-DSM

The Model MT-DSM multiplies one DC input by another DC input, and provides isolated and proportional DC outputs.

♣ Performance

- Accuracy : $\pm 0.2\%$ of Full Scale
- Temp. Coefficient : $\pm 0.015\%$ / $^{\circ}\text{C}$
- Response Time : 0.5Sec or less(0~90%), Normal
- Insulation Resistance : 100M Ω or more
with 500V DC (Input to Output to Power)
- Dielectric Strength : 1,500V AC 0.5mA/Min.
(Input to Output to Power)
- Display Range : -99 to 999 (Available Decimal Point)
- Unit : %, V, A, mV, mA, $^{\circ}\text{C}$, etc.

♣ General Specifications

- Housing Material : Plastic ABS(Resin), Black
- Isolation : Input to Output to Power
- Adjustment : Zero & Span $\pm 20\%$ of Full Scale (Separated)
- Display : 3 Digits (available Decimal Point)



♣ Installation

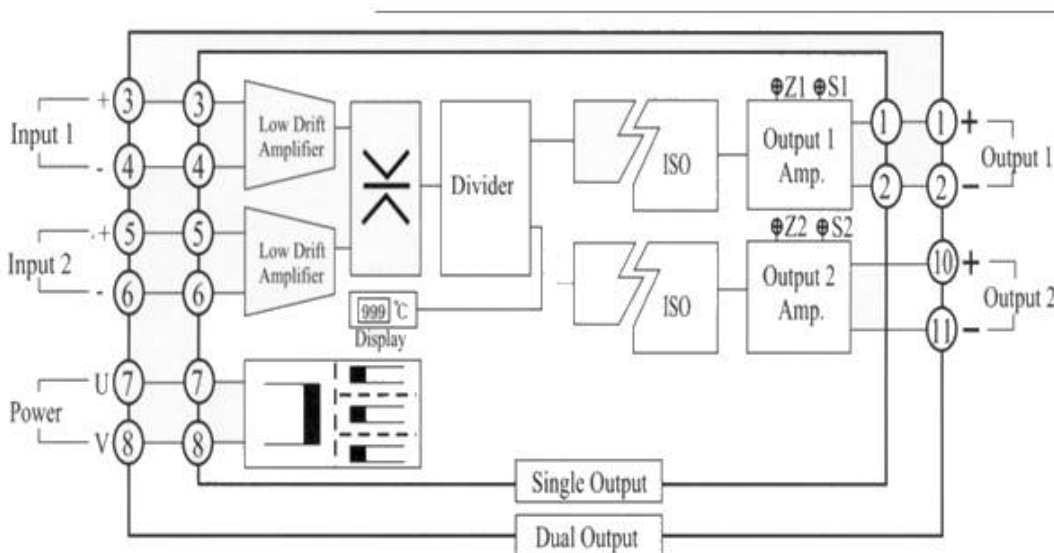
- Power Supply : AC 110V or 220V/60Hz(3VA), DC 18~30V (about 3Watts)
- Operating Temperature : 0~50 $^{\circ}\text{C}$
- Operating Humidity : 90% RH Max. (Non-Condensing)
- Mounting : Wall or Rail Mounting (Plug-in type)
- Dimension : 51(W) X 83(H) X 102(D) (Unit : mm)
- Weight : about 400g

♣ Ordering Information

Specify Code number and Variables.

- Code No. : MT-DSM-Model/Input/Output1/Output2-Power (Ex : MT-DSM-438N-X)
- Specify Input Range (Ex : 0~15mV)
- Specify Output Range (Ex : 0~5mA)

♣ Schematic Diagram



♣ Model & Suffix Code

Model Type Selection

- | | |
|------------------------------|-------------------------------|
| 1 : 1 Output without Display | 2 : 2 Outputs without Display |
| 3 : 1 Output with Display | 4 : 2 Outputs with Display |

Input Type & Range Selection

- 1 : DC 0~10mV (Impedance 1M Ω or more)
- 2 : DC 0~100mV (Impedance 1M Ω or more)
- 3 : DC 0~5V (Impedance 1M Ω or more)
- 4 : DC 0~10V (Impedance 1M Ω or more)
- 5 : DC 1~5V (Impedance 1M Ω or more)
- 6 : DC 0~1mA (Impedance 1k Ω fixed)
- 7 : DC 0~20mA (Impedance 250 Ω fixed)
- 8 : DC 4~20mA (Impedance 250 Ω fixed)
- 9 : Other Special Spec.

Output Type & Range Selection

- 1 : DC 0~10mV (Resistance 10k Ω or more)
- 2 : DC 0~100mV (Resistance 100k Ω or more)
- 3 : DC 0~5V (Resistance 5k Ω or more)
- 4 : DC 0~10V (Resistance 10k Ω or more)
- 5 : DC 1~5V (Resistance 5k Ω or more)
- 6 : DC 0~1mA (Resistance 0~15k Ω)
- 7 : DC 0~20mA (Resistance 0~750 Ω)
- 8 : DC 4~20mA (Resistance 0~750 Ω)
- 9 : Other Special Spec.
- N : No Output (Only Output2)

Power Supply

- W : AC 200~230V for 60Hz
 X : AC 100~120V for 60Hz
 Y : DC 18~30V
 Z : Other Special Spec.

♣ Dimension

