

## ***Isolated Square Root Extractor***

***MT-SQT***

The Model MT-SQT accepts a DC inputs typically from differential pressure flow-meters and provides a square root output which is linear to the actual flow.

### ♣ 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 $\Omega$  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, 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-SQT-Model/Input/Output1/Output2-Power (Ex : MT-SQT-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 0~5V (Impedance 1M $\Omega$  or more)  
2 : DC 0~10V (Impedance 1M $\Omega$  or more)  
3 : DC 1~5V (Impedance 1M $\Omega$  or more)  
4 : DC 0~1mA (Impedance 1k $\Omega$  fixed)  
5 : DC 0~20mA (Impedance 250 $\Omega$  fixed)  
6 : DC 4~20mA (Impedance 250 $\Omega$  fixed)  
7 : Other Special Spec.

Output Type & Range Selection

- 1 : DC 0~10mV (Resistance 10k $\Omega$  or more)  
2 : DC 0~100mV (Resistance 100k $\Omega$  or more)  
3 : DC 0~5V (Resistance 5k $\Omega$  or more)  
4 : DC 0~10V (Resistance 10k $\Omega$  or more)  
5 : DC 1~5V (Resistance 5k $\Omega$  or more)  
6 : DC 0~1mA (Resistance 0~15k $\Omega$ )  
7 : DC 0~20mA (Resistance 0~750 $\Omega$ )  
8 : DC 4~20mA (Resistance 0~750 $\Omega$ )  
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

