

# Digital Alarm Setter

## TW-3R

**NEW!**



### DC voltage measurement

Range	Measurement	Display	Input impedance	Input Protection
0	0 to 5V	Offset $\pm 9999$	1M $\Omega$	$\pm 250V$
1	1 to 5V	Fullscale	1M $\Omega$	
2	0 to 9.999V	$\pm 9999$	1M $\Omega$	

Accuracy:  $\pm (0.1\% \text{ of rdg} + 2 \text{ digit}) (23^\circ\text{C} \pm 5^\circ\text{C} \quad 35 \text{ to } 85\%RH)$

### DC current measurement

Range	Measurement	Display	Input impedance	Input Protection
A	4 to 20mA	Offset $\pm 9999$ Fullscale $\pm 9999$	50 $\Omega$	$\pm 60mA$

Accuracy:  $\pm (0.1\% \text{ of rdg} + 2 \text{ digit}) (23^\circ\text{C} \pm 5^\circ\text{C} \quad 35 \text{ to } 85\%RH)$

### Specification

#### Measuring Section

Input configuration : Single ended  
 Conversion rate : 12.5times/sec (50Hz), 15times/sec (60Hz)  
 Noise rejection ratio : NMR40dB or more (50/60Hz)  
 Display : Red LED 8mm height  
 Polarity display : Automatic "-" display when the computation result is minus  
 Overrange warning : When input exceeds the maximum display, display "o.L" or "-o.L"  
 Maximum display :  $\pm 9999$  (4 digit)  
 Decimal point : Settable to any digit position  
 Zero display : Leading zero suppression  
 Temp. coeff. :  $\pm 100\text{ppm}/^\circ\text{C}$

#### Common Section

Memory backup : EEPROM (rewrite 100,000times)  
 Operating temp. : 0 to 50°C 35 to 85%RH  
 Storage temp. : -10 to +70°C less than 60%RH  
 Power supply : 24V DC  $\pm 20\%$   
 Power consumption : 70mA (TYP) at 24V DC  
 Dimensions : 48mm (W)  $\times$  98mm (H)  $\times$  41mm (D)  
 Weight : approx. 140g (unit only)  
 Dielectric strength : Input (LO) and comparator output 500V DC per min.  
 Power supply (0V) and input (LO), comparator output case, 1500V AC per min.  
 Input (LO) and case, 1500V AC per min.  
 Case material : Black PBT  
 Insulation resistance : 500V DC 500M ohm or more as the above terminals  
 Excitation supply : 24V DC  $\pm 10\%$  25mA ripple less than 200mVp-p  
 Accessories : Instruction manual, terminal cover, connector

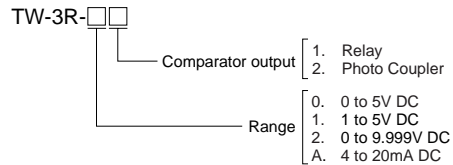
#### Comparison Section

Control method: Computation by microcomputer  
 Setting range: -9999 to +9999  
 Operating: By conversion rate  
 Comparison condition: Hi setpoint < Measured value  $\rightarrow$  HI  
 Hi setpoint  $\geq$  Measured value  $\geq$  Lo setpoint  $\rightarrow$  GO  
 Measured value < Lo setpoint  $\rightarrow$  LO  
 Relay output capacity: 30V DC/1A resistive load  
 125V AC/0.5A resistive load  
 Photo coupler output capacity: Voltage max. 30V  
 Current max. 50mA  
 Saturation voltage less than 1.2V at 50mA

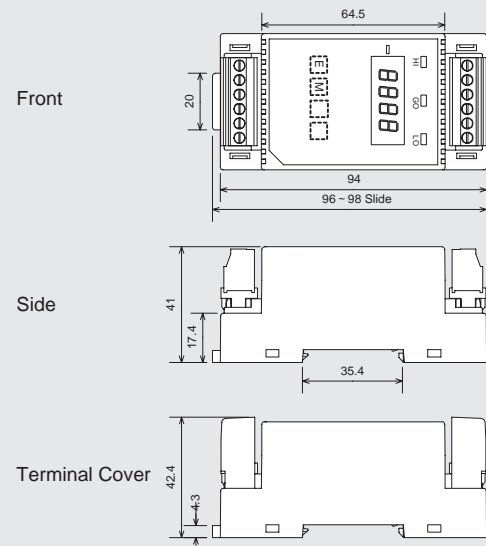
### Features

- DIN rail mount
- Hi and Lo setpoints
- Power supply 24V DC

### Ordering Code



### Dimensions



### Connection Diagram

