● DIGITAL INDICATOR

TIM-95GN-SERIES

BAR GRAPH INDICATOR WITH ALARM UNIT

PRIMUS

CE

รอเบิกสินค้าถ่ายรูปใหม่



Specification

Power Supply		100-250VAC 50/60Hz
		24VAC/VDC ±15%
Power Consumption		3VA
Display		7-Segment, Size 0.56 Inch
Input	Thermocouple	Type K, J, R, T, N, S, E
	RTD	PT100, PT1000
	PTC	PTC (1 kΩ)
	Current	0-20mA, 4-20mA
	Voltage	0-75mV, 0-150mV, 0-1VDC, 0-5VDC, 0-10VDC, ±0-75mVDC, ±0-150mVDC, ±0-1VDC, ±0-5VDC, ±0-10VDC
	Accuracy	±0.25% of Measurement Range at 25 °C
	Sampling Time	0.25 Sec
Output	Alarm Relay	3 Alarm, 5A 250VAC
	Transfer Current	4-20mA
	Transfer Voltage	0-10VDC
	Output Impedance	Load 500Ω for 4-20mA Output
		Load 1 kΩ for 0-10VDC Output
	Accuracy	± 0.25 % of Output Range
Communi-cation	Protocol	Modbus RTU
	Support Device Node	32
	Baud Rate	4800, 9600, 19200, 38400, 57600 bps
	Parity	None, Even, Odd
	Data Bit	8 Bits
	Stop Bit	1, 2 Bits
	Support Device Node	Recommend less than 32
Ambient Operation	Temperature	-10 °C to 60 °C
	Humidity	<85% RH Non-Condensing
Ambient Storage	Temperature	-20 °C to 80 °C
	Humidity	<85% RH Non-Condensing
Protection Degree	Front Protection Rating	IP52
	Case Protection Rating	IP30
Installation		Panel, Mountng
Material		ABS-V0
Size (mm.)		96 x 80 x 48
Weight (kg.)		205

Description

• Bar Graph Indicator With Alarm Unit : TIM-95GN Series
Is a device for measuring and displaying standard analog signals, temperature, humidity, pressure, and various process values, with a bar graph display.

• Supports multiple types of Universal Input in a single unit:
- Thermocouple
- RTD (PT100, PT1000)
- PTC 1 kΩ
- Current Analog: 0–20 mA, 4–20 mA
- Voltage Analog: 0–75 mV, 0–150 mV, 0–1 VDC, 0–5 VDC, 0–10 VDC, ±0–75 mVDC, ±0–150 mVDC, ±0–1 VDC, ±0–5 VDC, ±0–10 VDC

• Includes an Absolute Input Function to support cases where the input polarity (+/–) is connected in reverse.

• Alarm Relay Output can be expanded up to a maximum of 3 alarm output relays (optional), with 4 selectable functions.

• Alarm Relay Output functions are available for detecting open circuit or signal loss conditions for Thermocouple, RTD (PT100, PT1000), and PTC 1 kΩ inputs.

• Transfer Output 4–20 mA or 0–10 VDC is available in both Direct and Inverse modes.

• Includes a Manual Transfer Output Function, allowing the output signal of 4–20 mA / 0–10 VDC to be set as required.

• Thermocouple, RTD (PT100, PT1000), and PTC 1 kΩ inputs allow selection of temperature units in °C or °F.

• Display is a 4-digit 7-segment type with a size of 0.56 inches.

• Includes an internal DC source power supply of 24 VDC, 30 mA, for supplying power to a transducer.

• Includes a Lock Function to prevent changing settings via the front panel.

• Supports communication with a computer via RS-485 Modbus RTU port.

Operation

Bar Graph Indicator With Alarm Unit: TIM-95GN Series
It is a device for measuring and displaying standard analog signals, temperature, humidity, pressure, and various processes, featuring a Bar Graph display.

TIM-95GN Series supports Universal Input and is compatible with various types of Thermocouples: K, J, R, T, N, S, E / RTD (PT100, PT1000) / PTC 1 kΩ / Analog Current / Analog Voltage.

Example: Connecting the TIM-95GN Series with a 4-20mA input from a 0-100 bar Pressure Transmitter. By simply setting the Low Limit = 0 and the High Limit = 100, the system's pressure value can be displayed.

Input: Thermocouple, RTD (PT100, PT1000), PTC 1 kΩ
Temperature measurement units are selectable between °C and °F.

Operation[Continue]

In the event that the input signal is higher or lower than the Setting Range of Input, the display will show an upper dash or lower dash symbol.

The TIM-95GN Series features an internal 24VDC 30mA DC Source to provide power for transducers, eliminating the need for an external switching power supply.

There are 4 Alarm Relay Output Functions available for selection:

Absolute High Low Band Alarm: For example, the Relay Output activates when the temperature is lower than Setpoint Low and higher than Setpoint High.

Absolute High Alarm: For example, the Relay Output activates if the temperature is higher than Setpoint High.

Absolute Low Alarm: For example, the Relay Output activates when the temperature is lower than Setpoint Low.

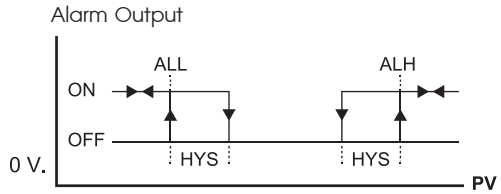
Absolute High Low Range Alarm: For example, the Relay Output activates when the temperature is higher than Setpoint Low and lower than Setpoint High.

Additionally, there is a special function that can detect cases where the Thermocouple, RTD (PT100, PT1000), or PTC 1 kΩ is broken or lacks a signal.

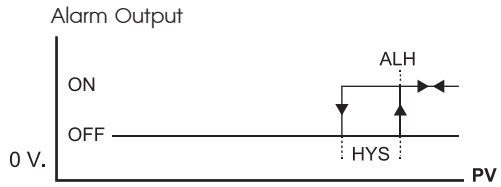
The Transfer Output (4-20mA or 0-10VDC) can be configured for both Direct and Inverse operation. There is also a Manual Transfer Output function, allowing for the 4-20mA / 0-10VDC signal to be output as required.

ALARM FUNCTION

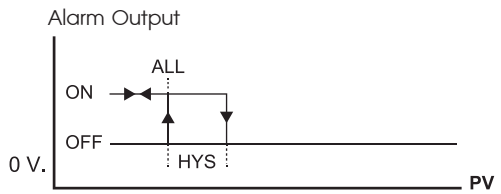
1. Absolute value High Low Band Alarm



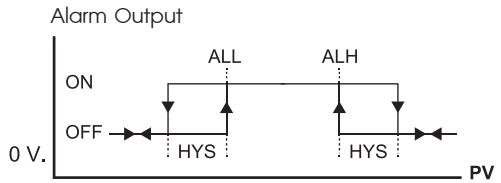
2. Absolute value High Alarm



3. Absolute value Low Alarm

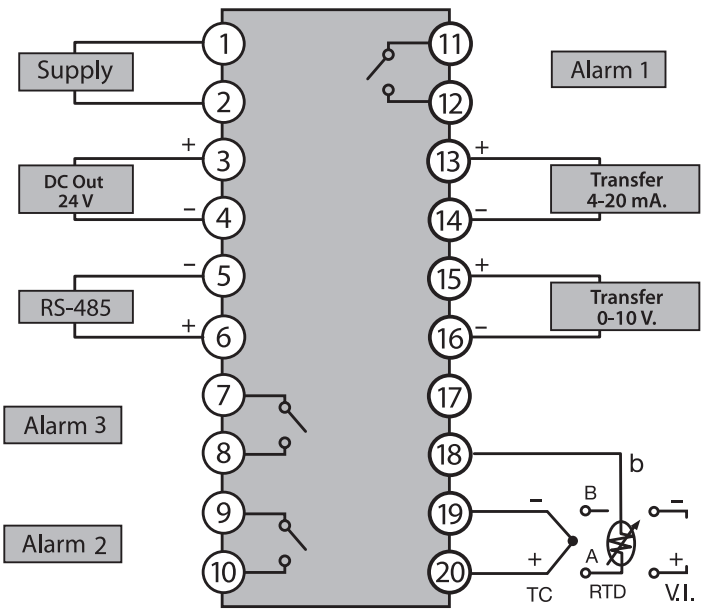


4. Absolute value High Low Range Alarm



Wiring Diagram

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WARNING

More than one power source.
Relay outputs maybe at mains potential.
Disconnect power from all source before install or servicing.

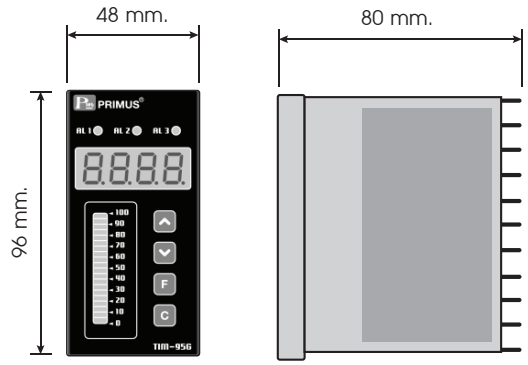
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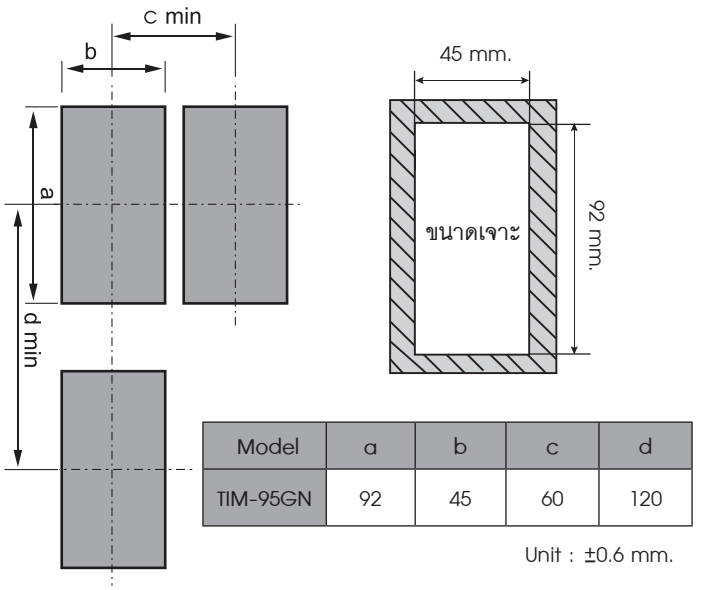
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Dimension



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Installation



Model	a	b	c	d
TIM-95GN	92	45	60	120

Unit : ±0.6 mm.

Ordering Code

TIM-95GN-A [Alarm Output] [Alarm Output] - [Transfer Output] [Communication] - [Power Supply]

Alarm Output	
B	2 Alarm
C	3 Alarm

Power Supply	
220	100-250VAC
24	24VAC/VDC ±15%

Communication	
None	None
M	RS-485

Transfer Output	
None	None
G	0-10VDC
I	4-20mA