

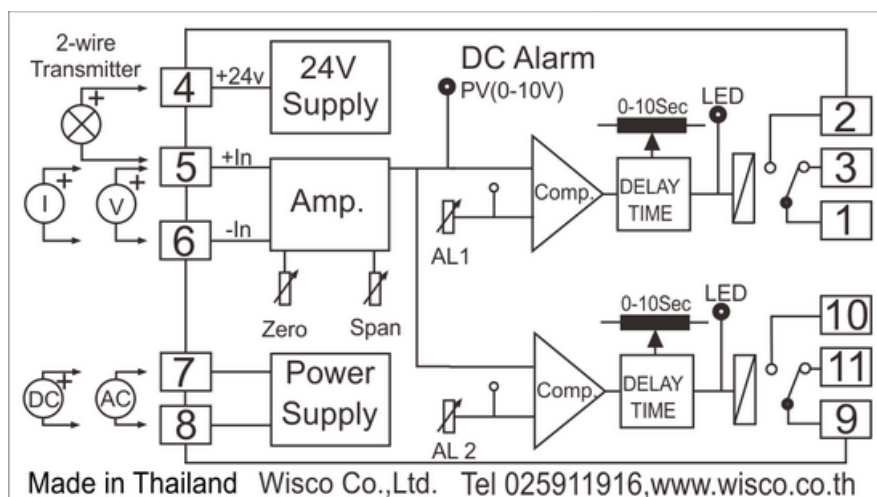
DC Alarm

DA95



- Two alarm set points
- DC. current or voltage input
- SPDT relay output
- 24 VDC supply for 2-wire transmitter

DC Alarm DA 95 This device accepts voltage or current input signals and allows for the configuration of two alarm setpoints. It utilizes a multi-turn potentiometer for precise setpoint adjustment, and each alarm channel can be configured as either a high or low alarm. Additionally, it features a 24 VDC power supply to power external devices, such as 2-wire transmitters. The DA95 is designed as a plug-in module for an 11 pin socket, facilitating easy installation and replacement.



Specifications

Analog Input

Number of channel: 1 Channel

Input type: Current, Voltage

Input range:

Current (0 to 20, 4 to 20, 10 to 50 mA other current optional)

Voltage (0 to 5, 1 to 5, 0 to 10 VDC other voltage optional)

Relay Output

Number of channel: 2 Channels

Relay type: N.O., N.C. (SPDT)

Contact Rating: 3 A @ 250 VAC

Alarm set point: 0 to 100 % of input range

Alarm Mode: Selectable High-High (HH), High-Low (LH), Low-Low (LL)

Hysteresis: 0.5 to 1 % of input range

DC. Power supply: 24 VDC, 36 mA current limit, short circuit protection

Monitor test point: Output 0 to 10VDC
Proportional to the input range 0 to 100%

Ordering Information: Specify Input, Alarm mode, Power supply

Example DA95/4-20 mA/HL/220 VAC

Package Checklist

1. DA95

Power Requirements

Power Supply: 100, 110, 220 VAC
24 VDC (Optional)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W50 x H70 x D130 mm.

Mounting: wall or DIN rail

Connection: Plug-in 11 pins socket

Warranty

Warranty Period: 5 Year

How to Configure Setpoints and Operation for the DA95

DA95 Input signals received via the +in and -in terminals are compared against the alarm setpoints (SET1, SET2). If the alarm mode is set to "Low alarm," the relay turns "ON" when the input value falls below the alarm setpoint; if set to "High alarm," the relay turns "ON" when the input value exceeds the alarm setpoint.

Zero and Span Adjustment

Use a digital voltmeter to measure at the "PV" (process value) test point, connecting the voltmeter's negative terminal to the "COM" test point; a PV reading of 10 VDC corresponds to 100% of the input signal, and 0 VDC corresponds to 0% of the input signal.

1. Apply a 0% input signal and adjust the "Zero" knob until the voltmeter reads 0 VDC.
2. Apply a 100% input signal and adjust the "Span" knob until the voltmeter reads 10 VDC.
3. Repeat the adjustments described in steps 1 and 2, alternating between them, until the Zero and Span values no longer change. (Typically, Zero and Span are calibrated according to the input range specified on the dial.)

Setting The Alarm Setpoint

The DA95 allows for the configuration of two alarm setpoints. Test points SET1 and SET2 are used to measure these setpoint values, where 10 VDC corresponds to 100% of the input and 0 VDC corresponds to 0% of the input. Measure the voltage at points "SET1" and "SET2" using a digital voltmeter by connecting the voltmeter's negative terminal to the "COM" terminal. For example, to set the alarm at 60% of the input, adjust the "SET" value to 6 VDC.