



V108-ALGNVH (green LEDs)  
V108-ALRDVH (red LEDs)

# VISIPAK™ V108

## Temperature/Process Indicator

Provides a 4 Digit Display and Alarm Output from RTD, Thermocouple or DC Inputs



- Field Configurable Input for Thermocouple, RTD, mV, and 4-20mA Signals
- Three Field Configurable Alarm Setpoints with Two Alarm Outputs
- Red or Green 4-Digit Display
- Combination Alarm Functions, Alarm Blocking and Programmable Latching/Non-latching
- NEMA 4 Front Panel
- 85 to 264VAC Power Supply

### Description

The V108 is a compact, 4 digit indicator (with alarms) that fits 1/8 DIN cutouts. It accepts temperature inputs from J, K, T, L, N, R, S, B, C and Platinel II type thermocouples and three-wire Platinum 100 Ohm (Pt100) RTDs. Process variables such as 4-20mA or ranges within -9.99 to 80mV can also be measured. Other thermocouple types such as D and E and custom curves can be configured at the factory. Voltage ranges from 0 to 10V can be measured with the optional (model SUB2-1V1) adapter.

Three programmable setpoint alarms can be field configured as rate of change, high or low; non-latching, latching or new. The new alarm indicates when a latched alarm has not been acknowledged and the measured value crosses the setpoint trip level a second time. Alarm hysteresis (deadband) can be configured from 1 to 9999 process variable units. Each alarm has a programmable delay up to 999.9 seconds. The alarms can be linked to either of two relay outputs. Alarms can be configured in combination (e.g. one or all three alarms linked to one or both relays) and will operate in fail-safe (e.g., normally energized) or non fail-safe modes. Additionally, the unit can be configured for password protection, limiting operator access to any or all functions. An alarm blocking function is also configurable to prevent alarm tripping during process or start-up. The unit also accepts wiring for remote alarm acknowledgment

Thermocouples, three-wire RTDs and mV inputs can be accepted directly into the indicator. Current signals such as 4-20mA are input using a 2.49 Ohm shunt resistor, included with the indicator and mounting hardware. Other shunt resistor values can be used to measure higher current levels, provided the produced signal is within the -9.99mV to 80mV input range. Similarly, voltage inputs such as 0-10V can be measured using the optional attenuator (model SUB2-1V1). The input can be scaled as desired for display. Offset and two point slope adjustments are fully programmable.

### Application

The V108 is excellent for temperature and process variable measurement. The NEMA 4, front plug-in, panel mount indicator fits standard 1/8 DIN cutouts.

The field configurable V108 makes an ideal standardized solution for a variety of temperature measurement and on-off control applications. For example, it can be used to control the heating and cooling elements in an oven or environmental control system using two setpoints for high and low temperature limits. Similarly, a 4-20mA pressure signal can be monitored and the setpoints used to control or alarm the gas pressure or liquid level in a tank or vessel. Weight, flow, pressure, temperature, speed, position and rate are just some of the process variables that can be accurately displayed and monitored with this flexible and effective unit.

Table 1: Input & Display Ranges

Input	Display Range and Setpoint Min & Max Limits	
Pt100	-200 to 850; C	-325 to 1562; F
Type J	-210 to 1200; C	-340 to 2192; F
Type K	-200 to 1372; C	-325 to 2500; F
Type T	-210 to 400; C	-325 to 750; F
Type L	-200 to 900; C	-325 to 1650; F
Type N	-200 to 1300; C	-325 to 2370; F
Type R	-50 to 1768; C	-58 to 3200; F
Type S	-50 to 1768; C	-58 to 3200; F
Type B	0 to 1820; C	32 to 3308; F
Type P (Platinel II)	0 to 1369; C	32 to 2469; F
-9.99 to 80mV	-999 to 9999	
0 to 20mA	-999 to 9999	
4 to 20mA	-999 to 9999	
0 to 10V*	-999 to 9999	

\*Requires input adaptor

## Specifications

### General

#### Display:

4 digit (-999 to 9999) with programmable decimal, green or red, 15.9mm (0.6 in.) high characters

#### Inputs:

See Table 1

#### Output:

Relay (isolated): 2A, 264VAC resistive.

Minimum 12Vdc, 100mA.

#### Accuracy:

+/-1°C or +/-0.25% of reading, whichever is greater

#### Cold Junction Compensation:

>30:1 rejection of ambient temperature change. Uses Instant Accuracy cold junction sensing technology to eliminate warm-up drift and respond rapidly to ambient temperature changes.

#### Input Filtering:

Off to 999.9 seconds

#### Panel Sealing:

NEMA 4, or IP54 (EN60529)

#### EMC Compliance (CE Mark):

Emissions: EN50081-2

Immunity: EN50082-2

#### Temperature:

Operating: 0 to 55°C (32 to 131°F)

Storage: -30 to 75°C (-22 to 167°F)

#### Humidity:

5 to 95% RH, non-condensing

#### Power:

Standard 100 to 240VAC, -15%, +10%,

48 to 62Hz, 5Wmax.

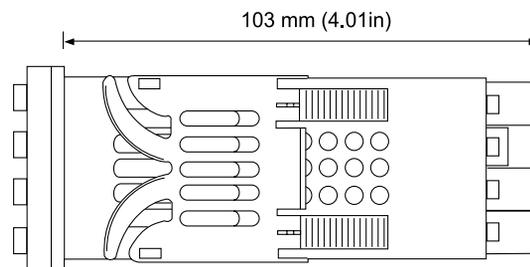
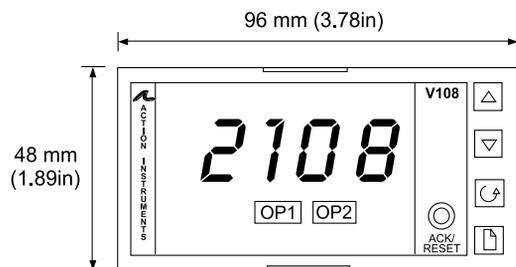
#### Agency Approvals:

cUL listed per standard UL508.

CE conformance per EMC directive

89/336/EEC, amended by 93/68/EEC and Low Voltage Directive 73/23/EEC, amended by 93/68/EEC.

## Dimensions



## Ordering Information

### Specify:

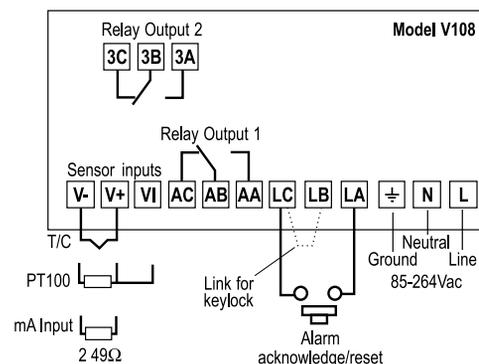
1. Model Number:  
**V108-ALGNVH** (Green LEDs) or  
**V108-ALRDVH** (Red LEDs)
2. Accessories: (see Accessories)
3. Optional Factory Configuration, specify **C620** with the desired configuration information.

### Accessories

The VisiPak model V108 is shipped with mounting brackets, a 2.49 Ohm shunt resistor and user manual. In addition, the following accessories are available:

#### SUB2-1V1 0-10V Input Adapter

## Wiring



i n v e n t a s

Eurotherm

action instruments

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