

VISIPAK™ V108

MODEL



*Protecting the
Integrity of
Industrial
Process Signals*

Temperature/Process Indicator

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

Benefits

- Field Configurable Input for Thermocouple, RTD, mV, and 4-20mA Signals
- Three Field Configurable Alarm Setpoint with Two Alarm Outputs
- Bright Green or Red 4 Digit (9999) LED Display, Programmable for Engineering Units
- Combination Alarm Functions, Alarm Blocking and Programmable Latching/Non-latching
- NEMA 4 Front Panel with Tactile Front Panel Configuration Buttons
- Wide Ranging Power Supply: 85 to 264VAC
- Three Year Warranty

DESCRIPTION

The VisiPak model 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 Platinell II type thermocouples and three-wire Platinum 100Ω (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 up to 0-10V 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 acknowledgement

Thermocouples, three-wire RTDs and mV inputs can be accepted directly into the indicator. Current signals such as 4-20mA are input using a 2.49Ω 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.

Being field configurable, the V108 indicator makes an ideal standardized solution for a variety of temperature measurement and on-off control applications. For example, the V108 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 and Display Ranges

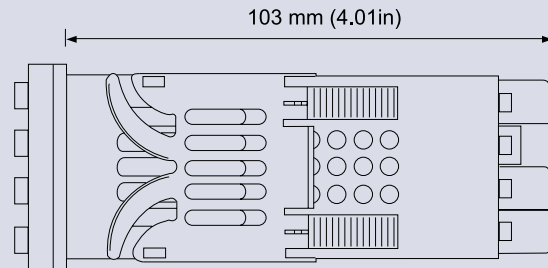
Sensor/Input	Display Range and Setpoint Min & Max Limits	
Pt100	-200 to 850°C	-325 to 1562°F
Type J	-210 to 1200°C	-340 to 2192°F
Type K	-200 to 1372°C	-325 to 2500°F
Type T	-210 to 400°C	-325 to 750°F
Type L	-200 to 900°C	-325 to 1650°F
Type N	-200 to 1300°C	-325 to 2370°F
Type R	-50 to 1768°C	-58 to 3200°F
Type S	-50 to 1768°C	-58 to 3200°F
Type B	0 to 1820°C	32 to 3308°F
Type P (Platinum 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 (input adapter required)	-999 to 9999	

SPECIFICATIONS

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	Model V108 is 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



MODELS & ACCESSORIES

Accessories

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

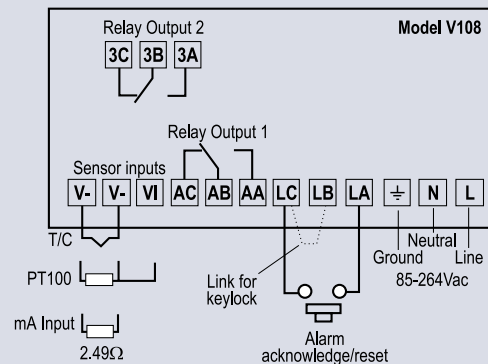
SUB2-1V1 0-10V Input Adapter

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.

WIRING DIAGRAM



大连爱克新仪器有限公司

地址: 辽宁省大连市中山区七七街23号403室

电话: 0411-82650498 82597851

传真: 0411-82650478 邮编: 116001

E-mail: sales@actionio.com.cn
support@actionio.com.cn

www.actionio.com.cn

