



**Temperature indicator with blazing bright, large display... changes color when reaches alarm value**



The Veeder-Root brand S628 Temperature Indicator is a member of a family of 1/8 DIN instruments which offer breakthrough display technology as well as easy-to-program user setup. Its large LED display features the ability to change color based on process status such as exceeding an alarm value. Therefore, when monitoring temperature as a critical value, the S628 provides operators with an instant visual alert to changes in the application's status.

- AWESOME 0.71" high digit LED display (27% larger than other 1/8 DIN units)
- Programmable color change display based on an event
- Programmable help function and secondary legend display
- Field configurable alarm outputs
- Max. and min. value capture
- Plug in option cards include: 2nd relay, digital input, linear output, and RS-485 communication
- Accepts most standard thermocouple types and 3 & 4 wire RTDs
- Standard outputs: 2 NPN transistors & 1 relay (optional 2nd relay)
- 250 ms sample time with 0.1% accuracy
- CE approved

Selection of input type is done easily from the front panel. Programmable filtering is used to ensure an accurate display even in electrically noisy environments, while a programmable offset value can be used to correct for known errors in the process. The two alarms can be setup for high or low operation, reverse or direct acting, and can be latched.

### SPECIFICATIONS

**Sensor Input:** B, J, K, N, S, and T thermocouples

Accuracy:  $\pm 0.1\%$  of span  
Sample Rate: 250 ms  
Resolution: 14 bits  
Sensor Break: Detected within 2 seconds

**Control Inputs:** Sourcing, Edge Sensitive  
Logic Low  $\leq 2.0$  VDC, Logic High  $\geq 3.0$   
Impedance: 4.7 K $\Omega$  to + voltage - Sourcing  
Response Time: 25 ms  
Function: Programmable

**Outputs:** Solid State: NPN open collector, 30 VDC max., 100 mA max.  
Relay: SPDT, 5A resistive@ 110 VAC  
Latency: 75  $\mu$  seconds, plus 8 ms for relay pull-in

**Linear Outputs:** 0-20mA, 4-20mA, 0-10V, 2-10V, 0-5V, 1-5V  
Accuracy:  $\pm 0.25\%$  (mA at 250 $\Omega$ , V at 2k $\Omega$ ); degrades linearly to  $\pm 0.5\%$   
Resolution: 8 bits in 250ms (10 bits in 1s typ.)  
Update: Approximately 4/s  
Load Impedance: mA ranges: 500 $\Omega$  max.; V ranges: 500 $\Omega$  min.

**Communication:** RS-485; Serial asynchronous, UART to UART;  
Open ASCII: One start bit, even parity seven data bits, one stop bit;  
Baud Rate selectable from 9600, 4800, 2400, or 1200  
Maximum Zones: 99

**Supply Voltage:** 90-264 VAC, 50/60 Hz, or 20-50 VAC/VDC; 4 Watts  
**Accessory Power Supply:** 24 VDC @ 30 mA

**Display:** Red/Green, 7 segment LED  
Primary display: 5 digits, 0.71" (18mm) height  
Secondary display: single digit, 0.3" (7mm) height  
Annunciators: Output 1 & Output 2 status

**Dimensions:** 48mm x 96mm, 110mm deep

**Mounting:** Panel mount (mounting bracket supplied), 45mm x 92mm cutout

**Connections:** Screw type terminals - combination head

**Front Panel Rating:** NEMA 4X/IEC IP65

**Case Material:** GE Lexan 940

**Weight:** 0.56 lbs.

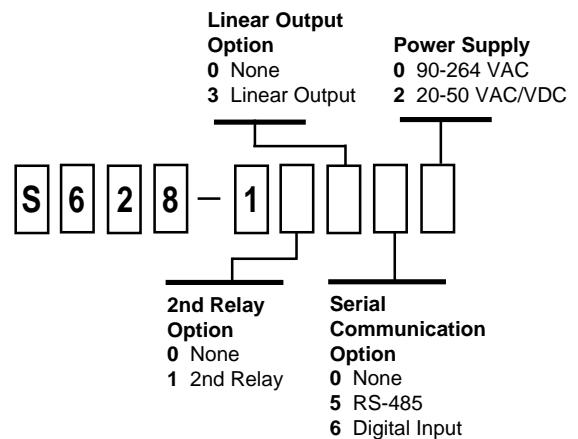
**Operating Temp.:** 0° to 55° Celsius, 32° to 131° Fahrenheit

**Storage Temp.:** -20° to 80° Celsius, -4° to 176° Fahrenheit

**Relative Humidity:** 20% to 95% non-condensing

**Approvals:** CE

### Ordering Information:



### Dimensions:

