VEEDER-ROOT

S628 Series Temperature Indicator

The Veeder-Root S628 Series 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 process variables in applications using analog signals, the S628 provides operators with an instant visual alert to changes in the application's status.

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 set up for high or low operation, reverse or direct acting and can be latched.
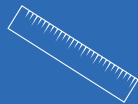
- AWESOME 0.71" high digit LED display (27% larger than other 1/8DIN units)
- Programmable color change display based on an event
- Programmable help function and secondary legend display
- Field configurable alarm outputs
- Max. and min. value capture
- Plug in option cards include: 2nd relay, digital 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
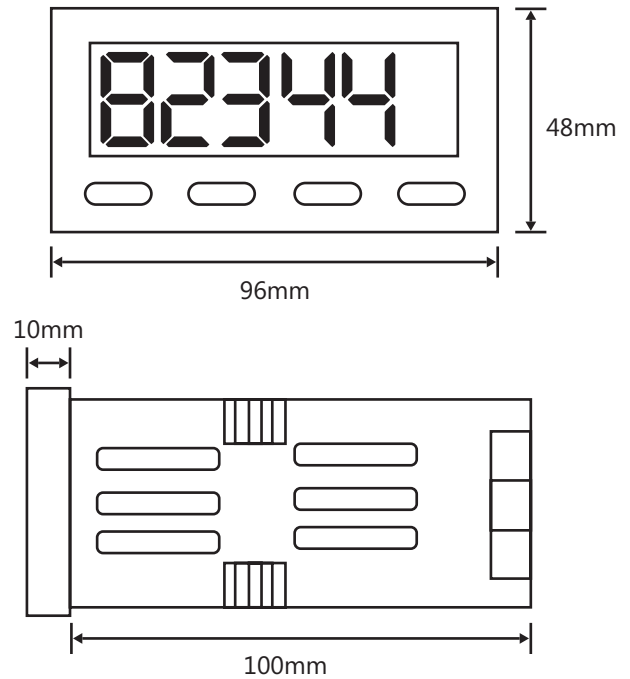- CE approved

TIME   COUNT   MEASURE   DISPLAY

S628 Series Temperature Indicator

SPECIFICATIONS

SENSOR INPUT	B, J, K, N, S and T Termocouples Accuracy: ±0.1% of span Sample Rate: 250 ms Resolution: 14 bits Sensor break: Detected within 2 seconds
CONTROL INPUTS	Sourcing, Edge Sensitive Logic Low ≤ 2.0 VDC, Logic High ≥ 3.0 Impedance: 4.7 KΩ 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 μ seconds, plus 8 ms for relay pull-in
LINEAR OUTPUTS	0-20mA, 4-20mA, 0-10V, 2-10V, 0-5V, 1-5V Accuracy: ±0.25% (mA at 250Ω, V at 2kΩ); degrades linearly to ±0.5% Resolution: 8 bits in 250ms (10 bits in 1s typ.) Update: Approximately 4/s Load Impedance: mA ranges: 500Ω maximum; V ranges: 500Ω minimum
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	Voltage: 20-28 VDC, 24 VDC nominal; Min. Impedance: 910Ω (22 mA @ 20 VDC)
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 TEMPERATURE	32° to 131°F (0° to 55°C)
STORAGE TEMPERATURE	-4° to 176°F (-20° to 80°C)
RELATIVE HUMIDITY	20% to 95% non-condensing
APPROVALS	CE

DIMENSIONS

48mm

96mm

10mm

100mm

Panel Cutout: 45mm x 92mm (1.77: x 3.62")

ORDERING INFORMATION

S628 - 1 X X X X

2nd Relay Option	Linear Output Option	Serial Communication Option	Power Supply
0 None 1 2nd Relay	0 None 3 Linear Output	0 None 5 RS-485 6 Digital Input	0 90-264 VAC 2 20-50 VAC/VDC

📞 1.800.390.6405

🌐 www.veeder-rootcounters.com

✉ customer.service@sptech.com

📍 2100 West Broad Street
Elizabethtown, NC 28337

V/R VEEDER-ROOT