VEEDER-ROOT brand
Process Indicators

S628 AWESOME AC Volts/Amps

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AC Volts/Amps analog unit with blazing bright, large, color-changing display… true RMS measurement

The Veeder-Root brand S628 AC Volts/Amps 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.

■ 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, RS-485 communication

■ Transmitter power simplifies wiring

■ Inputs from 0-1 VAC to 0-600 VAC, 0-1 mA to 0-1 amp

■ True RMS measurement

■ Standard outputs: 2 NPN transistors & 1 relay (optional 2nd relay)

■ 250 ms sample time with 0.1% accuracy

■ CE approved

Process inputs are easily scaled into engineering units by programming two input values and their corresponding display values through the front panel. A teach function, which automatically inputs the current sensor reading as a scale point, further simplifies setup. The two alarms can be setup for high or low operation, reverse or direct acting, and can be latched.

SPECIFICATIONS
Process Input: From 0-1 VAC to 0-600 VAC, 0-1 mA to 0-1 amp
Frequency: 20 Hz to 5kHz - degrades at higher frequencies
Accuracy: ±0.1% of span
Sample Rate: 250 ms
Resolution: 14 bits
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 max.; V ranges: 500Ω 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: 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
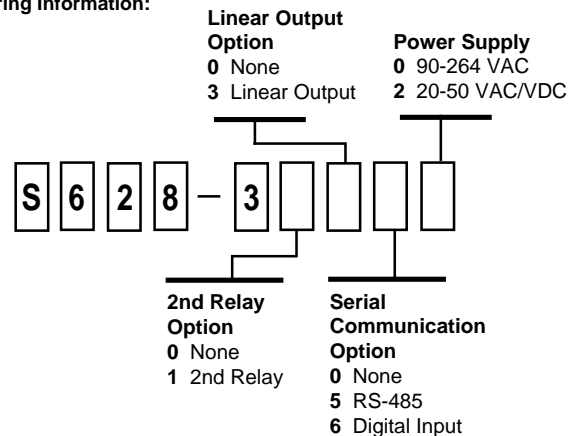**Case Material:** GE Lexan 940
Weight: 0.56 lbs.
Operating Temp.: 0° to 55° Celsius, 32° to 131° Fahrenheit
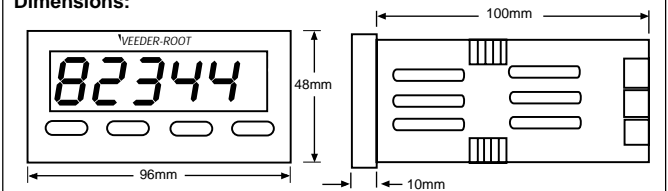**Storage Temp.:** -20° to 80° Celsius, -4° to 176° Fahrenheit
Relative Humidity: 20% to 95% non-condensing
Approvals: CE

Ordering Information:

		Linear Output Option		Power Supply	
		0 None		**0** 90-264 VAC	
		3 Linear Output		**2** 20-50 VAC/VDC	

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2nd Relay Option	Serial Communication Option
0 None	**0** None
1 2nd Relay	**5** RS-485
	6 Digital Input

Dimensions:

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