S628 AWESOME AC Volts/Amps



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

Baud Rate selectable from 9600, 4800, 2400, or 1200

CE

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

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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

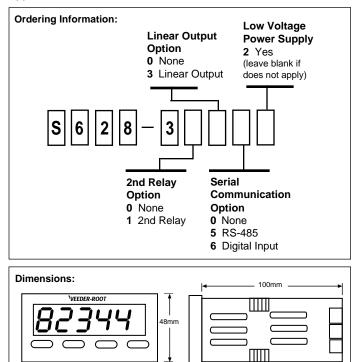
 Logic Low ≤ 2.0 VDC, Logic High ≥ 3.0

 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: $\pm 0.25\%$ (mA at 250Ω 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 Impedence: 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;

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 Storgage Temp.: -20° to 80° Celsius, -4° to 176° Fahrenheit Relative Humidity: 20% to 95% non-condensing Approvals: CE



96mm

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

- 10mm