



AWESOME preset & batch counters with large, blazing bright, color changing displays

All in the family - Matching C628 series products in other sections of this catalog:

C628 Totalizers:	Section 1
C628 Rate Meters:	Section 4
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File No.: E185087



The Veeder-Root brand C628 Counters are members of a family of 1/8 DIN instruments which offer breakthrough display technology as well as easy-to-program user setup. The large LED display features the ability to change color based on process status such as exceeding the count preset. Therefore, when monitoring count, position, length, or other critical values, the C628 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
- Batch units - Independent display of background total
- Programmable help function and secondary legend display
- Dual preset units - Preset 1 programmable as absolute value or prewarn which tracks Preset 2
- Choice of NPN or PNP primary input
- Filter speed settable for 20, 200, or 10,000 Hz
- Standard Outputs: 1 NPN transistor (2 NPN transistors on Dual & Batch units) & 1 relay (optional 2nd relay on Dual & Batch units)
- Front panel reset enable and preset lockout
- Optional RS-485 plug in card
- CE approved, UL, CUL recognized

Single (C628-7XXX) and dual (C628-8XXX) preset models are available with programmable latched or timed output operation. A batch model (C628-9XXX) also has a preset tied to output 1 as well as a batch preset tied to output 2. This model displays count, batch value, and background total.

SPECIFICATIONS

- Count Inputs:** Sinking/Sourcing or Contact Closure
Frequency: 10 kHz max. (5 kHz Quadrature)
Logic Low ≤ 2.0 VDC, Logic High ≥ 3.0, 30V max.
Impedance: 10 KΩ to common - Sourcing; 4.7 KΩ to +Voltage - Sinking
- Calibrator:** Multiplier 0.0001 to 9.9999
- Control Inputs:** Sinking, Edge Sensitive
Logic Low ≤ 2.0 VDC, Logic High ≥ 3.0
Impedance: 4.7 KΩ to +Voltage
Response Time: 25 ms
Functions: Input 1 - Remote Reset; Input 2 - Security Lockout
- Outputs:** Solid State: NPN open collector, 30 VDC max., 100 mA max.
Relay: SPDT, 2 amp resistive @ 110 VAC
Latency: 75 μ seconds, plus 8 ms for relay pull-in
- 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:** 9-15 (unregulated VDC), 125 mA max.
- 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 (for Dual & Batch units) 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; UL, CUL recognized

