



**Large, blazing bright,  
color-changing display...  
cumulative or single  
timing operation**

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

<b>C628 Totalizers:</b>	<b>Section 1</b>
<b>C628 Counters &amp; Position Indicators:</b>	<b>Section 2</b>
<b>C628 Rate Meters:</b>	<b>Section 4</b>

File No.: E185087



The Veeder-Root brand C628 Elapsed Timer 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 the preset value. Therefore, when monitoring an application's elapsed time, the C628 can provide 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
- Programmable for single input or cumulative operation
- Choice of NPN or PNP primary input
- Filter speed settable for 20, 200, or 10,000 Hz
- Standard outputs: 1 NPN transistor & 1 relay
- Front panel reset enable and preset/alarm lockout
- Optional RS-485 plug in card
- CE approved, UL, CUL recognized

The C628 Elapsed Timer has a definable set value at which an output will activate. The unit can be programmed to operate in a cumulative (elapsed time continues to accumulate during all instances when the input is active) or single (time value will display the elapsed time of an individual input and will reset to zero for each successive new pulse) input function mode. In addition, the time format (seconds, minutes, hours, minutes & seconds, or hours & minutes) and timing direction (up or down) can be selected.

## SPECIFICATIONS

**Count Inputs:** Sinking/Sourcing or Contact Closure  
Frequency: 10 kHz max.  
Logic Low  $\leq$  2.0 VDC, Logic High  $\geq$  3.0, 30V max.  
Impedance: 10 K $\Omega$  to common - Sourcing; 4.7 K $\Omega$  to +Voltage - Sinking

**Control Inputs:** Sinking, Edge Sensitive  
Logic Low  $\leq$  2.0 VDC, Logic High  $\geq$  3.0  
Impedance: 4.7 K $\Omega$  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 A resistive @ 110 VAC  
Latency: 75  $\mu$  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

**Time Formats:** Seconds, Minutes, and Hours: XXX.X

Minutes & Seconds and Hours & Minutes: XX.XX

**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.

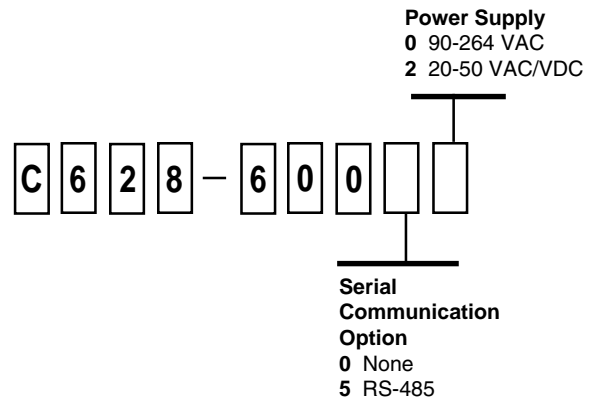
**Operating Temp.:** 0° to 55° Celsius, 32° to 131° Fahrenheit

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

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

**Approvals:** CE, UL, CUL

### Ordering Information:



### Dimensions:

