

C628 Rate Meter

The Veeder-Root C628 Rate Meters are members 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 a preset alarm value. Therefore, when monitoring rates of line-speed, flow, machinery RPM and other critical rates, the C628 can provide operators with an instant visual alert to changes in the application's status.

High/Low alarms also activate relay and transistor output channels for direct control of electrical circuits. Start up suppression prevents "false" outputs during initial process acceleration.

The C628 is available with a count totalizing feature letting you instantly switch display between production rate and total – at the touch of a button. A process time mode lets the unit show travel time in minutes and seconds for applications such as food and beverage processing (inverse speed calculation).



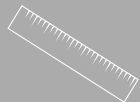
- AWESOME 0.71" high digit LED display (27% larger than other 1/8 DIN units)
- Programmable color change display based on an event
- Universal power supply operates at all popular AC and DC voltages
- Display configurable for rate mode (A or A/B), update time, minimum number of pulses, and forced zero time
- Optional linear output relative to rate
- Choice of NPN, PNP or magnetic primary input
- Independent calibration of rate & total
- Filter speed settable for 20, 200, or 10,000 Hz
- Standard Outputs: 2 NPN transistors & 1 relay (optional 2nd relay)
- Front panel reset enable and alarm lockout
- Optional RS-485 plug in card
- CE approved, UL, CUL recognized



TIME



COUNT



MEASURE

8:43

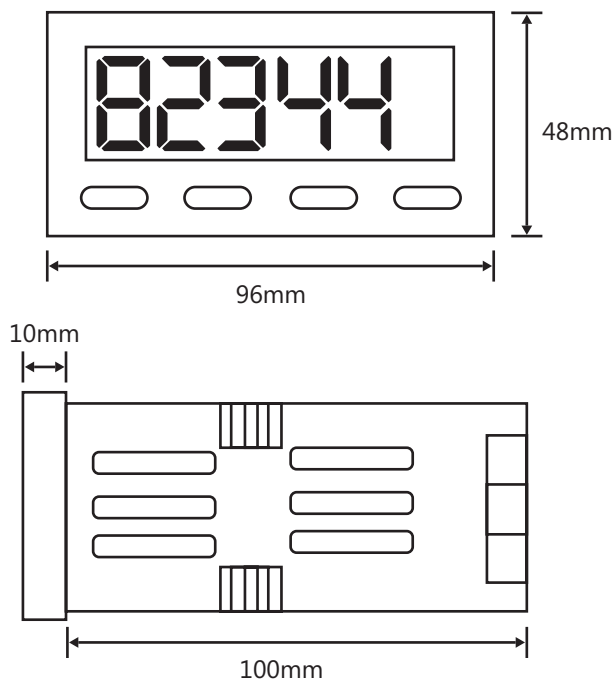
DISPLAY

C628 Rate Meter

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 Ω to common - Sourcing; 4.7 K Ω to +Voltage -Sinking; Magnetic Input: 0.5 to 30V peak
CALIBRATOR	Multiplier 0.0001 to 9.9999
CONTROL INPUTS	Sinking, Edge Sensitive Logic Low \leq 2.0 VDC, Logic High \geq 3.0 Impedance: 4.7 K Ω to +Voltage Response Time: 25 ms Functions: Input 1 - Display Hold (Rate Meter) and Remote Reset (Rate Meter with Total); Input 2 - Security Lockout
OUTPUTS	Solid State: NPN open collector, 30 VDC max., 100 mA max. Relay: SPDT, 2 resistive @ 110 VAC Latency: 75 seconds, plus 8 ms for relay pull-in
LINEAR OUTPUTS	Ranges: 0-20mA, 4-20mA, 0-10V, 2-10V, 0-5V, 1-5V Accuracy: \pm 0.25% (mA at 250 Ω , V at 2k Ω) degrades linearly to \pm 0.5% Resolution: 8 bits in 250ms (10 bits in 1s. typ.) Load Impedance: mA ranges 500 Ω max.; V ranges 500 Ω min. Update: Approx. 4/s
COMMUNICATION	Optional 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
FILTER SPEED	Settable for 20, 200 or 10,000 Hz
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
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	0° to 55° Celsius, 32° to 131° Fahrenheit
STORAGE TEMPERATURE	-20° to 80° Celsius, -4° to 176° Fahrenheit
RELATIVE HUMIDITY	20% to 95% non-condensing
APPROVALS	CE; UL, CUL recognized

DIMENSIONS



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

ORDERING INFORMATION

