Specifications & Features – RCR-600 Chart Recorder

DESIGN SPECIFICATIONS

Input Signal
Thermocouple: J, K, T, E, B, S, R, C, N, U, L, Au-Fe
RTD: PT100, JPT100
DC Voltage: ±10mV, 0-20mV, 0-50mV, ±1V, 1-5V
Current: 4-20 mA dc, with external 250W shunt resistor

Performance
Recording Width: 100 mm calibrated
Recording Accuracy: ±0.2%; ±1 digit maximum for display/printing
Input Impedance: mV/tc input - 10MΩ
Vdc input - 1MΩ, mA input - 100Ω
Common Mode Rejection Ratio (CMRR): 140 db
Normal Mode Rejection Ratio (NMRR): 60 db
Dielectric Strength: Power input/ground - 1500 Vac
Input/ground - 500 Vac
Vibration Resistance: 1 m/s² maximum 10 - 60 Hz
Shock Resistance: 2 m/s² maximum
Chart Feed Accuracy: ±0.1% maximum
Clock Precision: ±50 ppm

Power Source
Power Input: 85 to 264 Vac
Frequency: 45 to 65 Hz
Power Consumption: 30 VA

Recording and Printing
Recording: Raster-scan printing
Printing: Dotting with 6-color ribbon
Dot Print Interval: 10.0 second / 6 channel maximum
Chart Paper: Length - 52.5 ft. (16m)
Chart Speed: 28 speeds, user selectable, from 10-1500 mm/hr
Printing Colors: Purple, red, green, blue, brown, black

Alarm — Input/Output
Outputs: 1 relay drive per setting, up to 6 relays
250 Vac 3A/ 30Vdc 3A/ 125Vdc 0.5A
Quantity per Channel: 4
Digital Inputs: Maximum of 3

Normal Operating Conditions
Ambient Temperature: 32° to 122°F (0 to 50°C)
Relative Humidity: 35 to 85% non-condensing

Communications
Standard: RS-232C
Optional: RS-485 (Modbus RTU)

Structure
Dimensions: 144 × 144 × 175 mm (5.7" × 5.7" × 6.9")
Mounting: Panel mount, allowable inclination – 30°
Panel Cutout: 138 × 138 mm (5.43" × 5.43")

Ordering Code: RCR-600 - [1] [2] [3]

Digital input / output *BOX 1*
0 = None
1 = 6 Relay output
2 = 3 Digital inputs
3 = 3 Digital inputs + 6 relay outputs

Data Communications *BOX 3*
0 = RS - 232C Interface
1 = RS - 485 Interface

Out of Paper Sensor *BOX 2*
0 = No
1 = Yes

Ordering Information
The **RCR-600** is offered with the options listed in the worksheet. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements and a part number will be assigned, or choose one of the basic systems.

Standard lead time is stock to 4 weeks.

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Basic Systems

Part Number	Description
RCR40001	6-point dotting, 6 relay/digital outputs, no out of paper sensor, with RS-232C data interface
RCR40002	6-point dotting, no relay/digital outputs, no out of paper sensor, with RS-232C data interface
RCR40003	6-point dotting, 6 relay/digital outputs & 3 digital inputs, no out of paper sensor, with RS-232C data interface
RCR40005	6-point dotting, 6 relay outputs, has out of paper sensor, with RS-232C data interface

Accessories – RCR-600

Part Number	Description
RCA40901	Chart paper – Z fold style, 52.5 ft. (16 m)
RCA40902	Replacement Multi-Color Ribbon
RCA40903	Precision Shunt Resistor, 250W