

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: 14 × 14 × 75 mm (5.7" × 5.7" × 6.9")

Mounting: Panel mount, allowable inclination – 30°

Panel Cutout: 13 × 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