7.

CIRCULAR CHART RECORDER

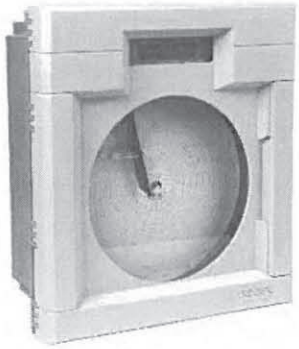
FOXBORO

QTY. 1: 740RA-A3300CR

(*NOTE: IN EFFORT TO MAINTAIN STANDARDIZATION OF RECORDER TYPE PREVIOUSLY INSTALLED THROUGHOUT THE DISTRICT, WE HAVE MADE THIS SUBSTITUTION FOR THE STRIP CHART RECORDER.)

QTY. 1: 740RA-A3300CR

740R Series Digital Circular Chart Recorder



- Brilliant, 40-character dot matrix display
- Wide range of standard inputs including mA, mV, Thermocouple, and RTD
- Completely watertight and dusttight. Conforms to NEMA Type 4 requirements.
- Completely self-contained. Separate configurators are not required.
- Compatible with Model 40 Series mechanical recorders
- Fully isolated inputs and outputs
- Four independent timers for logic or event-driven activities

The 740R Digital Circular Chart Recorder indicates and continuously records up to four electronic analog signals on a 12-inch circular chart. This microprocessor-based unit also offers a wide variety of user-configurable process supporting functions such as alarms, totalizers, calculations, and curve characterizers.

Refer to Product Specifications sheet PSS 2C-1A8 A for complete description and specifications.

Physical Specifications

Environmental Protection: Completely watertight and dust-tight, reinforced polyester enclosure. Conforms to the stringent requirements of NEMA Type 4.

Dimensions: Nominal 15.6 in wide by 17.3 in high by 7.9 in deep

Mounting: Surface, panel, or pipe

Display Format: Blue-green, fluorescent panel with 40 dot matrix characters

Functional Specifications

Pens: 1, 2, 3, or 4 as specified. Pen 1 (inner position) is red, pen 2 is violet, pen 3 is green, pen 4 (outer position) is blue.

Supply Power: 90 to 132 V or 180 to 264 V ac, as specified, 45 and 65 Hz, 30 watts (90 watts with optional enclosure heater coded)

Ambient Temperature Limits: 0 to 50°C (32 to 122°F)

Relative Humidity Limits: 5 and 95%, noncondensing

Input Signals: 0 to 20 mV through 0 to 100 V dc; RTD, ANSI, or IEC 100 ohm platinum, 10 ohm copper, 120 ohm nickel; thermocouple, ISA or ANSI Types T, J, E, C, L, K, N, R, S, and B. All inputs are fully isolated from line power, ground, and each other.

Signal Conditioning: Square root, 3/2 and 5/2 power; log 10

Chart Speed: Configurable from 1 to 4096 hours for each revolution

Charts: Approximately 10 complimentary, 24-hour charts with 0 to 100% graduations are supplied with the recorder. Order quantity and range of charts desired separately

Sample Rate: Two samples per second on each channel

Alarms: Up to 4 alarms with individual set points on each channel. Configurable for high, low, deadband, and rate-of-change alarm action.

Optional Features

- ✓ *Transmitter Power Supply:* 29 V dc for up to four 2-wire transmitters
- ✓ *Totalizer:* Up to four fully scalable totalizers. Configurable reset and preload functions
- ✓ *Calculations and Characterizer:* Standard arithmetic functions plus preconfigured specialized applications
- ✓ *Contact Outputs:* Dry relay contacts for alarm status and remote counter drivers
- ✓ *NEMA 4X:* Provides additional corrosion resistance in conformance with NEMA Type 4X requirements

How to Order—Specify model number 740RA followed by order code for each selection

Nominal Supply Voltage and Frequency

V ac, 50/60 Hz	A
240 V ac, 50/60 Hz	C

Input Channel One

0 to 20 mV through 0 to 5V, RTD and TC	1
0 to 5 V through 0 to 100 V	2
4 to 20 mA	3
Same as 1 above, without pen	6
Same as 2 above, without pen	7
Same as 3 above, without pen	8

Input Channel Two

None	0
0 to 20 mV through 0 to 5 V, RTD and TC	1
0 to 5 V through 0 to 100 V	2
4 to 20 mA	3
Same as 1 above, without pen	6
Same as 2 above, without pen	7
Same as 3 above, without pen	8

Input Channel Three

None	0
0 to 20 mV through 0 to 5 V, RTD and TC	1
0 to 5 V through 0 to 100 V	2
4 to 20 mA	3
Same as 1 above, without pen	6
Same as 2 above, without pen	7
Same as 3 above, without pen	8

Input Channel Four

None	0
0 to 20 mV through 0 to 5 V, RTD and TC	1
0 to 5 V through 0 to 100 V	2
4 to 20 mA	3
Same as 1 above, without pen	6
Same as 2 above, without pen	7
Same as 3 above, without pen	8

Optional Selections

28 V Transmitter Power Supply	A
Calculated Variables and Custom Curve	B
One Totalizer	C
Two Totalizers	D
Three Totalizers	E
Four Totalizers	F
Dual Ramp Generator	G
Tamper-Evident Feature	K
NEMA 4X Enclosure	L
Polycarbonate Door Windows	M
Pipe Mounting	N
Enclosure Heater	P
Two Relay Outputs	Q
Four Relay Outputs	R
Six Relay Outputs	S
Eight Relay Outputs	T
Eight Contact Inputs	U
Sixteen Contact Inputs	V

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