

10" Universal Circular Chart Recorders

Microprocessor-based recorder meets NEMA 3

These economical, all-purpose microprocessor-based recorders handle a variety of process parameters such as temperature (T/C and RTD) and linear signals (mA, mV, V) from various types of transmitters. The DR4300 has two models (with or without a digital display) and a variety of options, allowing you to select the recorder that best meets your needs. Choose models with digital display to view results on a bright, vacuum fluorescent display and easily configure recorder via integral keypad. All recorders come built with a stepper motor for precise operation and feature a built-in self-test. Housing has a gasketed door and acrylic window to meet NEMA 3 requirements; panel or surface mount.

- Fully user-configurable—adapt to a wide range of applications
- Accept 10 thermocouple types, RTDs, mA, mV, or voltage inputs
- Available with additional options and advanced functions—search online by catalog number and see "Customize Your DR4300 Process Recorder"



80671-20

SPECIFICATIONS	
Input ranges	DC voltage: 0 to 10 mV, 0 to 100 mV, 0 to 200 mV; 0 to 1 V, 0 to 2 V, 0 to 5 V, 1 to 5 V, 0 to 10 V; Current: 0 to 20 mA, 4 to 20 mA; Thermocouples: J, K, T, E, R, S, B, NNM, NIC, WS; RTD: 100 Ω Pt
Accuracy	DR4301/4302: ±0.35% of span DR4311/4312: ±0.10% of span (field-calibrated)
Input impedance	DC voltage: 200 kΩ; Current: 250 Ω RTD: 13.3 kΩ; All others: 10 MΩ
Acquisition rate	0.33 sec
Chart size	10" (254 mm)
Chart speed	DR4301/4302: 24 hrs, 7 days DR4311/4312: 1 to 744 hours
Dimensions (W x H x D)	14" x 14" x 5 7/8" (355 x 355 x 148 mm)
Power	100 to 240 VAC, 50/60 Hz

What's included: Chart paper and pen(s).

Catalog No.	Model No.	Description
TS-80671-00	DR4301	10" chart recorder, one channel
TS-80671-00	DR4302	10" chart recorder, two channels
TS-80671-20	DR4311	10" chart recorder, digital display, one channel
TS-80671-30	DR4312	10" chart recorder with digital display, two channels
Accessories		
TS-80671-92	—	Repl. pen for channel one, purple. 6/pk
TS-80671-90	—	Replacement pen for channel two, red. 6/pk
TS-80671-80	—	Repl. chart paper; 7 day, 100 divisions. 100/pk
TS-17110-00	—	NIST-traceable calibration with data for recorders

12" Universal Circular Chart Recorders

Create and print the chart as data is recorded

These microprocessor-based recorders use a single pen to produce a chart, chart data, and up to four traces on blank, heat-sensitive paper. The four traces share the same timeline, eliminating errors due to pen alignment offsets created by multiple pen designs. The printed chart data such as range markings, engineering units, digital values, time/date, and channel identifiers make the chart specific for the application.

A built-in excitation voltage provides 24 VDC for up to two transmitters—no need for separate power supplies. Two alarms, each with two set points, give a visual and printed indication. Alarms can be configured to print one of six customized event messages in a specific area of the chart (order alarm relays as an option). Password-protected lockout prevents unauthorized changes. Housing includes a gasketed door and glass window to meet NEMA 3 requirements. Panel- or surface-mount recorders. User configurable—set parameters to meet your needs.

- Available with additional options and advanced functions—search online by catalog number and see "Customize Your DR4500A Process Recorder"



8063-00

SPECIFICATIONS	
Input ranges	DC voltage: 0 to 50 mV, 1 to 5 V; Current: 4 to 20 mA Thermocouples: J, K, T, E, R, S, B, NNM, NIC, WS RTD: 100 Ω Pt, 500 Ω Pt
Accuracy	±0.1% of span
Input impedance	Current: 250 Ω; Voltage: 200 kΩ; All other ranges: 10 MΩ
Acquisition rate	One to two inputs: 0.33 sec; three to four inputs: 0.66 sec
Chart size	12" (304.8 mm)
Chart speed	6 to 744 hr/revolution
Panel cutout (W x H)	12.7" x 12.7" (322.6 x 322.6 mm)
Dimensions (W x H x D)	14" x 16 1/2" x 5 7/8" (355 x 419 x 142 mm)
Power	102 to 132/204 to 264 VAC, 50/60 Hz

What's included: Chart paper and pen(s).

Catalog No.	Model No.	Description
TS-80673-00	DR45AT-1000	12" chart recorder with digital display, one channel
TS-80673-10	DR45AT-1100	12" chart recorder with digital display, two channels
TS-80673-20	DR45AT-1110	12" chart recorder with digital display, three channels
TS-80673-30	DR45AT-1111	12" chart recorder with digital display, four channels
Accessories		
TS-80673-92	—	Replacement thermal pen
TS-80673-90	—	Replacement thermal paper. 100 sheets/pk
TS-17110-00	—	NIST-traceable calibration with data for recorders