



Artisan Scientific

QUALITY INSTRUMENTATION ... GUARANTEED

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Artisan Scientific is Your Source for Quality New and Certified-Used/Pre-owned Equipment

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Paperless Recorder/ Data Acquisition System

RD8800 Series
Starts at

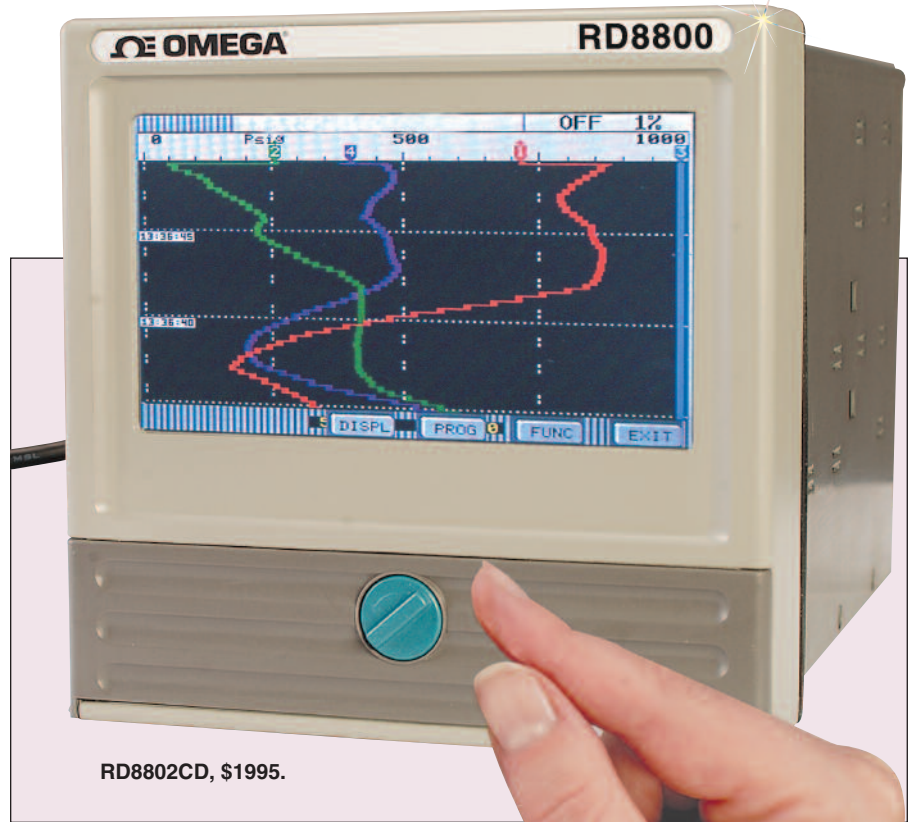
\$1395



- ✓ 2, 4, 6 or 12 Isolated Analog Inputs
- ✓ 127 mm (5") Bright LCD or 142 mm (5.6") TFT Color Graphic Display with Touchscreen Control
- ✓ Record Data on 3½" Disks or CompactFlash™ Memory Cards
- ✓ Windows Based Software (Optional)
- ✓ Math Functions Include +, -, x, ÷, Logarithms, Totalization, Powers, Averages, Timers and Custom Equations
- ✓ Independent Recording Rates for Each Channel
- ✓ Set Up and Automatically Search Data Files by Signal Values, Alarms, or Date/Time Parameters
- ✓ Alarm/Event Information
- ✓ 5 Alarms (High, Low, and Rate of Change) per Channel

RD8800-SW Windows® Based Software

- ✓ Direct Data Transfer
- ✓ Simultaneous Multi-File Viewing
- ✓ Multi-Drop up to 31 Units Via RS485 with MODBUS Protocol
- ✓ Remote Data Acquisition and Recorder Configuration
- ✓ Search, Combine, Analyze, Print, and Export Data Files to Other Programs



Specifications

Input Signals

Thermocouple: J, K, T, E, R, S, B, C, N
RTD: 10 Ω Cu, 100 Ω Pt 385: 100 Ω Pt 392, 200 Ω Pt 385: 200 Ω Pt 392, 120 Ω Ni 385

DC Voltage: Linear, square root, logarithmic

DC Current: 0/4 to 20 mA, 10 to 50 mA

Input Accuracy

Thermocouple: ±1.5°C for J, K, T, E, N (Nicrosil-Nisil); ±3°C for R, S and C; ±4°C for B

RTD: ±0.5°C or 0.2%

DC Voltage: ±0.06% for ±150 mV, ±1.25V, ±2.5V; ±0.1% for ±12.5V, ±25V
Current: ±0.15% with external 50 Ω 0.1% shunt

Input Resolution: 0.0015% of full scale, 16-bit

Input Impedance: >10 MΩ on 150 mV, 1.25V, 2.5V, >100 K on 5, 12.5, 25V ranges

Max Input: 50 Vdc

Scan Rate: All points measured every 125 ms

Isolation: 300 Vdc or peak Vac between channels

Common Mode Noise Rejection: >100 dB, 50/60 Hz

Normal Mode Noise Rejection:

>50 dB, 50/60 Hz

EMC Compliance: Meets or exceeds the requirements of EMC 89/336/EEC

Recording

Recording Rates: User programmable from 8 samples per second to 1 sample every 10 min

Format: Windows compatible file system; proprietary file structure

Storage Capacity: 700,000 samples for a 1.44 megabyte 3.5" disk or 64 MB samples on 128 MB flash card

Internal Memory: 1 MB RAM (non-volatile)

Display

Display Type Mono: CCFL backlit STN liquid crystal display 127 mm (5.0")

Resolution Mono: 240 H x 128 V pixels

Display Type Color: CCFL backlit active matrix TFT liquid crystal display 142 mm (5.6")

Resolution Color: 320 H x 234 V pixel

Display Modes: Graphics (trending, vertical or horizontal), bar graphs (vertical or horizontal), digital meter, alphanumeric alarm and event data or combinations on a split screen; review trend data; search by time, date or signal value

Display Update Rate: 1 sec; data update rate programmable from 1 to 60 sec

Virtual Chart Speed: Programmable, 10 mm/hr to 15,000 mm/hr (0.5 in/hr to 600 in/hr); chart speed is independent of storage rate

Virtual Chart Scales: 2 sets of 8 scales

Display Windows: Time/date, graphics (bars, large digital, trends), disk status, system status, menu button bar, unit identification, alarms/events

Buffer: Internal buffer enables real time browsing of historic chart data independent of recorded data

Configuration: Touchscreen control menu with button bar or simple programming on IBM compatible PC with optional software

Software: Spreadsheet export utility software included; graphical software optional; Windows 95/98/ME/2000/XP/NT; on 3½" disk

Options

Alarm Contacts: 3 or 6 isolated form C, 3 A @ 250 Vac or 26 Vdc

Remote Inputs: 3 isolated inputs user selectable as dry contact or 5 to 12 Vdc activated; inputs share a common terminal; configurable for chart control, alarm, acknowledge/reset, event markers, totalizer reset or logic input

Communications: ESD protected RS232 with full hand shaking; supports modem or isolated

RS485 Network Port: Serial protocol, MODBUS® RTU or MODBUS ASCII

Ethernet: 10BaseT

Power

Power Requirements: 100 to 240 Vac, 50/60 Hz, or 125 to 300 Vdc, 35 VA max

Power Fail Protection:

Programmed parameters stored in non-volatile memory; clock battery backed; detention time without power >12 months

Environmental

Operating Temperature:

5 to 40°C (41 to 104°F); floppy disk, -10 to 50°C (14 to 122°F); card

Operating Humidity:

10% to 80% RH non-condensing

Wash Down: IP65 front panel only

Safety: Meets UL-311-1 and EN61010-1

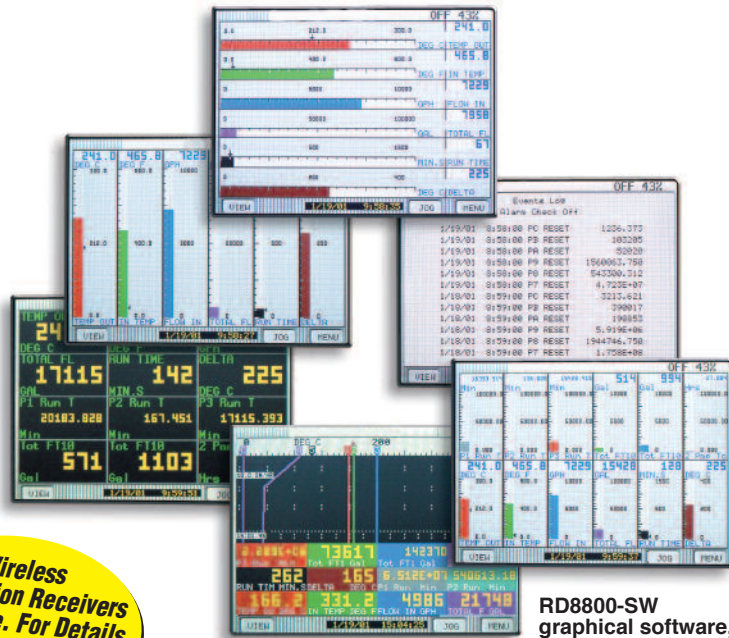
Dimensions:

144 L x 144 W x 236 D mm (5.669 x 5.669 x 9"); panel cutout: 138 L x 138 W mm (5.43 x 5.43")

Weight: Approx 3.2 kg (7 lb)



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.



Wireless Conversion Receivers Available. For Details Visit omega.com/mwfc-rec6

RD8800-SW graphical software, \$199, sold separately.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Description
RD8802MD	\$1395	Recorder, 2 input, monochrome
RD8804MD	1495	Recorder, 4 input, monochrome
RD8806MD	1595	Recorder, 6 input, monochrome
RD8812MD	1895	Recorder, 12 input, monochrome
RD8802CD	1995	Recorder, 2 input, color
RD8804CD	2095	Recorder, 4 input, color
RD8806CD	2195	Recorder, 6 input, color
RD8812CD	2495	Recorder, 12 input, color

Options

Model No. (Field Installable)	Price	Description
RD8800-AL3	\$195	Alarms, 3-relay contacts, 3 control inputs
RD8800-AL6	295	Alarms, 6-relay contacts, 3 control inputs
RD8800-C24	150	Communications, RS232/RS485
RD8800-EI	150	Communications, Ethernet

Accessories

Model No.	Price	Description
RD8800-SW	\$199	Software, graphical
RD8800-SWEI	149	Software to support ethernet option and multiple recorders (no graphics)
RD8800-256CF	40	Memory card, 256 MB compact flash
RD8800-512CF	60	Memory card, 512 MB compact flash
RD8800-CR-3-2	249	Card reader, cable and software

Comes complete with 3½" disk drive, operator's manual, utility software and AC power cord for connection to the standard IEC320 AC power supply connector (similar to PC's) on the rear of the recorder.

Note: To order recorder with compact flash data storage in place of the 3½" disk drive, replace "D" at end of model number with "F", same price. To special order AC power screws in place of the cord, add "-ST" suffix and \$25 to the price. To special order 18 to 30 Vdc power option, add suffix "-DC" and add \$225 to price.

Options may be shipped installed in the recorder by adding option suffix and price to base model.

Ordering Examples: RD8802MD monochrome 2-input recorder and RD8800-AL3, alarms, 3 relay contacts, and 3 control inputs, \$1395 + 195 = \$1590.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$350) \$1590 + 350 = \$1940.

RD8806MD, recorder, 6 input, monochrome, \$1595.



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Flow and Level

Flow Indicators, Doppler Flowmeters, Level Indicators, Magnetic Flowmeters, Mass Flowmeters, Rotameters, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

Humidity and Conductivity

Humidity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Instrumentation and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers, Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters

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