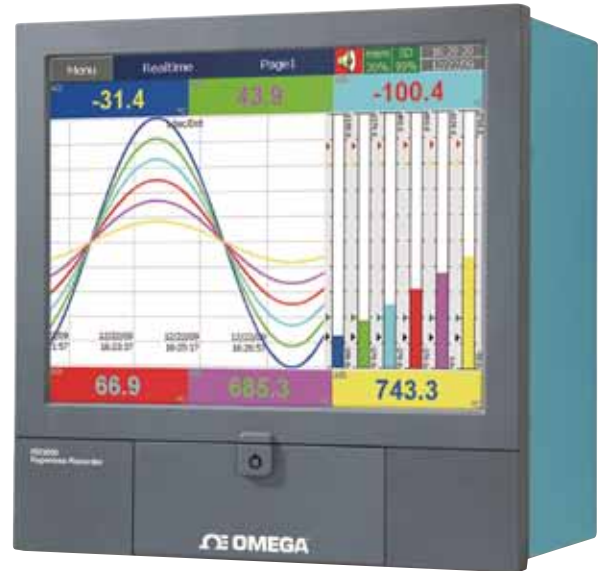


**RD1000/RD2000/RD3000  
 Series**



RD1000, 4.3" display

RD2000, 5.6" display



RD3000, 12.1" display

All models shown smaller than actual size.

- ✓ **Color TFT Touch Screen Display:** 4.3", 5.6" and 12.1"
- ✓ **Expandable Inputs and Outputs via Plug and Play I/O Cards:** RD1000/2000 Series—4 Slots; RD3000 Series—16 Slots
- ✓ **Analog Inputs:** RD1000 Series—Up to 6 RD2000 Series—Up to 24 RD3000 Series—Up to 48
- ✓ **User Friendly with Bar Graph, Numerical, Vertical or Horizontal Trend Display**
- ✓ **Ethernet Interface Standard with Optional RS232/422/485 Communications**
- ✓ **Built-In Web Server for Remote Data Monitoring**

- ✓ **Stores Data on 256 MB Internal Flash Memory**
- ✓ **Windows® Graphical Software Standard and Optional Software for Real Time Monitoring**

The RD1000/2000/3000 Series paperless recorders offer real time display of data in a variety of formats on a high resolution TFT touch screen display. The user friendly unit with plug and play cards can easily be set to monitor, record, and evaluate any application. The user can access data on the screen, as well as from a remote site via the standard Ethernet, Web Server or optional RS232/422/485 serial interface. The historical data may be stored in a flash ROM, compact flash card, or collected in a remote host PC for evaluation and print out. The unit's compact size saves space and minimizes depth required behind the panel.

**Hardware Features**

- RD1000 Series: 3 or 6 Universal Analog Inputs and 24 Optional External Channels
- RD2000 Series: 6, 12, 18 or 24 Universal Analog Inputs and 48 Optional External Channels
- RD3000 Series: 6, 12, 18, 24, 30, 36, 42 or 48 Universal Analog Inputs and 96 Optional External Channels
- TFT Color LCD, High Resolution Touch Screen
- 100 Millisecond Sample Rate and Data Logging
- High Accuracy 24-Bit A/D Analog Input
- 16-Bit D/A Analog Output
- Digital Input, 100 Hz Maximum
- Plug and Play I/O cards (AI, AO, DI, DO) for Easy Expansion
- On-Board SD Card Slot for Internal Memory
- USB Slot for External Storage
- 171 mm Short Depth Behind Panel
- Standard Ethernet with Optional RS232 or RS422/RS485 Communications
- Two USB Host Ports for Downloading Data or Connect to Printer
- IP65 (NEMA 4X) Water-Resistant

## Firmware and PC Software Features

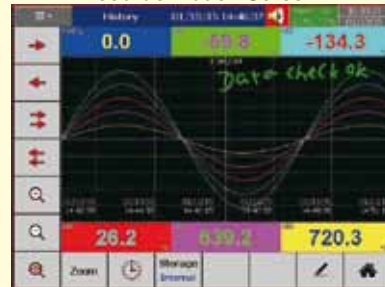
- Free Basic Software for Configuration, Historical Viewer
- Optional Extensive Data Acquisition Studio Software—for Configuration, Historical Viewer and Real Time Viewer
- Circular Trends in RD3000 Series
- Additional Panel Studio Software for Editing and Customizing Displays
- Display Values in Digital, Real Time Trends, Historical Trends, Bar Graphs
- Real Time and Historical Alarms
- Event Management, Jobs Linked with Events
- Reports (Daily, Weekly and Monthly)
- Timers – Optional: Counters, Totalizers, Math Channels and CFR-21
- Customized Messages for Alarms
- Alarms by Email Directly from Paperless Recorder
- Batch Control, Log Data in Batches
- 100 msec Data Logging and Historical Data Archival Tools
- Display Screen Rotation
- Dynamic Data Exchange via PC Software
- Search Data with Reference to Time and Period, then Export to Spreadsheets
- Data Logging by Value Change or Time Base
- Start/Stop Data Logging Functions Which Can Be Linked with Real Time Clock or Events

### Recorder Input Name and Description Screen—Standard Firmware



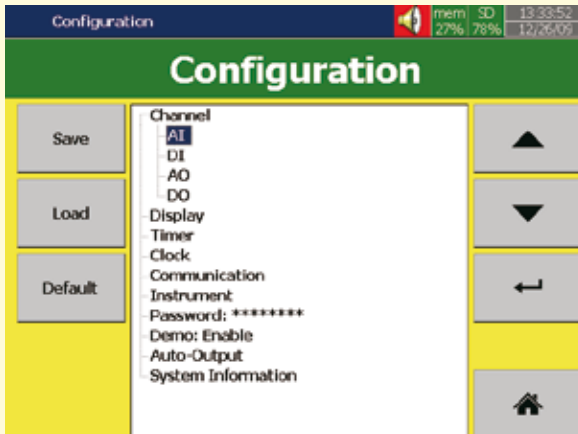
Input name and description:  
Large entry fields allow users to key in many characters.

### Recorder Touch Screen



Touch-screen allows easy handwriting of notes and messages.

## Recorder Configuration Screen



Configuration in tree layout is easy to operate.

**AI:** Analog input logging speed can be set from 100 ms, 1, 2, 5, 10, 20, 30 sec/dot; 1, 2 min/dot

**DI:** Digital input is offered either normal logic or high frequency pulse

**AO:** In analog output, mA or V and its expression can be defined

**DO:** Digital output/relay output can be enabled. Each DO card has 6 relays

**Display:** Various display speeds are available from 100 ms, 1, 2, 5, 10, 20, 30 sec/dot, or 1, 2, 10, 30 min/page, 1, 2, 4, 8, 12 hour/page, or 1 day/page

**Timer:** Timer in countdown, repeat countdown, daily, weekly or monthly base, and various jobs can be defined

**Clock:** Date style of mm/dd/yy or dd/mm/yy, time synchronize via internet, and daylight saving time can be defined

**Communication:** Web server and email functions are available in communication in standard firmware

**Instrument:** Brightness adjustment and screen saver are available in instrument

**Password:** If normal security is chosen, then only one password is offered. If high security of CFR-21 is chosen, then 9 levels of password can be defined

**Demo:** Enable or disable the demonstration

**Auto-output:** Automatic output can be set to specify the printer, to print historical data & report data in specified period of time

**System information:** Gives firmware version number, internal and external memory status, IP address, and IO card status of each slot

**Web Server:** Available with all the recorders as a standard feature. When this feature is enabled the user can access real-time trends, data, events and alarms wherever an internet connection is available

## Expandable Input

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Each recorder is equipped with rear expansion slots (RD1000/RD2000 Series has 4 slots, RD3000 Series has 16 slots) which work flexibly with the following plug and play I/O cards:

**Analog Input Cards (RD1000-3AI & RD1000-6AI):** These two cards are used for 3 or 6-channel analog inputs. Each input is isolated from each other to avoid noise and to ensure stable measurement.

**Relay Output Card (RD1000-6R):** Each card includes 6 alarm relays. Contacts are rated 5 A/240 Vac

**Digital Input Card (RD1000-6DI):** Each card includes 6 channels. Logic Low: -5V minimum, 0.8V maximum, Logic High: 3.5V minimum, 24V maximum

**Combination Relay Output and Digital Input Card (RD1000-3R-3DI):** Each card includes 3 digital inputs and 3 relay outputs. For digital inputs, Logic Low: -5V minimum, 0.8V maximum, Logic High: -3.5V minimum, 24V maximum. For relay outputs, the contacts are rated 5 A/240 Vac.

**Analog Output Card (RD1000-6AO):** Each card includes 6 channels. They are used for 4 to 20 mA, 0 to 20 mA current output, 0 to 5 V, 1 to 5 V, 0 to 10 Vdc voltage output.

## Communication

protocol IEEE 802.3 – 10/100 Base T. RS232/422/485 serial communications is optional.

## SPECIFICATIONS

### GENERAL

**Display:** LCD, 65K color

**Resolution:** RD1000: 480 x 272;

RD2000: 640 x 480; RD3000: 1024 x 768

**Backlight:** LED

**MTBF Backlight @ 25°C:** RD1000,

RD2000: 30,000 hrs; RD3000: 60,000 hrs

**CPU:** ARM Cortex-A8, 1 GHz

**Internal Flash Memory:** 256 MB

**SD Card Slot:** Standard

**USB Host:** 2 ports (one front, one back)

**Start/Stop Key:** Start/stop recording and turn off display only (for quick re-start), does not turn off power to the unit

**Web Server:** The recorder trend and digital data can be viewed in any place in the world with the recorder connected to Internet with a fixed IP address

**Multilingual Programming:**

19 languages including English, Japanese, Chinese (simplified, traditional), French, German, Spanish, Swedish, Danish, Italian, Polish, Russian, Dutch, Korean, Thai, Turkish, Portuguese, Brazil Portuguese and Czech

**PC Software:** Standard software supplied for historical data viewing and configuration; optional Data Acquisition Studio software for real-time monitoring; supports Windows XP/Vista/7/8 (32-bit and 64-bit)

### Real Time Clock

**Accuracy vs.**

**Temperature Inside**

**of Housing:** 18 sec typical error per month (10 to 40°C); 52 sec typical error per month at 0°C or 50°C; 107 sec typical error per month at -10°C or 60°C

**Power:** 90 to 250 Vac, 47 to 63 Hz, 52 VA, 26 W max; 11 to 36 Vdc, 26 VA, 26 W max (optional)

### ANALOG INPUT CARDS (RD1000-3AI AND RD1000-6AI)

**Channels:**

**RD1000-3AI:** 3 channels

**RD1000-6AI:** 6 channels

**Resolution:** 24 bits

**Sampling Rate:** 10 times/second

**Maximum Rating:**

**RTD Input:** ±20V

**Thermocouple and Voltage Input:** ±65V

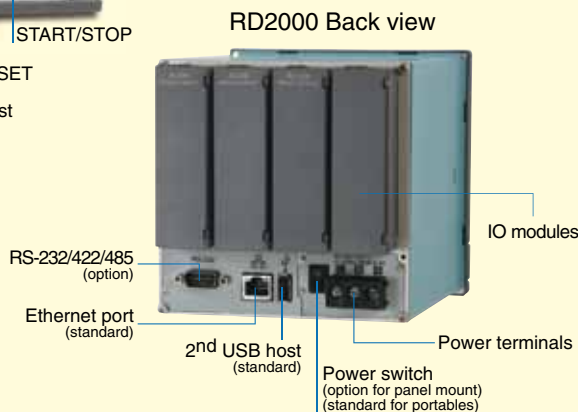
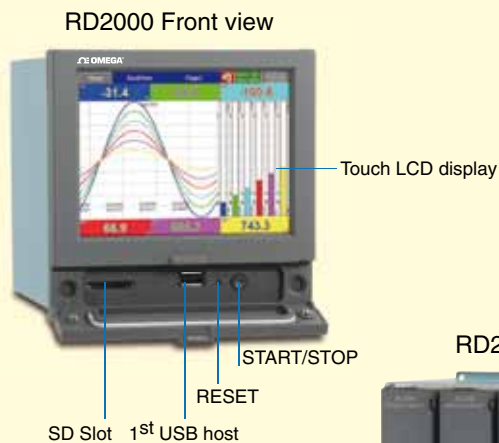
**Current (mA) Input:** ±10V

**Temperature Effect:** ±0.1 μV ±15 ppm of reading for all inputs except mA, ±30 ppm of reading for mA input

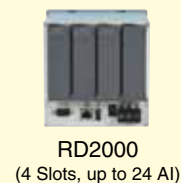
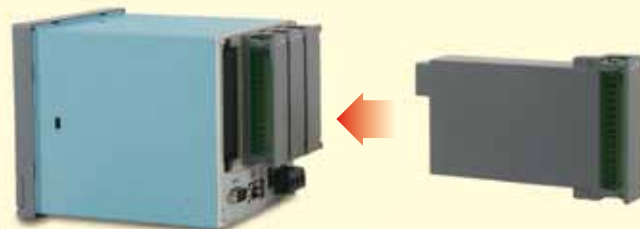
**Sensor Lead Resistance Effect:**

- **Thermocouple:** 0.32 ppm of reading/Ω
- **3-Wire RTD:** 2.6°C/Ω of resistance difference of two leads (based on °C measurement temperature for Pt100)
- **2-Wire RTD:** 2.6°C/Ω of resistance sum of two leads (based on °C measurement temperature for Pt100)
- **Burn-Out Current:** 10μA

### Expandable modules of inputs and outputs



### IO modules easy for expansion



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**Rejection Ratio (CMRR):** 120 dB  
**Normal Mode Rejection Ratio (NMRR):** 55 dB

**Channels:** 1500 Vac min  
**Sensor Break Detection:** Sensor opened for thermocouple, RTD and mV inputs; below 1 mA for 4 to 20 mA input, below 0.25V for 1 to 5V inputs, unavailable for other inputs

**Sensor Break Response Time:**  
 Within 1 second for thermocouple, RTD and mV inputs; 0.1 second for 4 to 20 mA and 1 to 5V inputs

### Analog Input Types and Ranges

Type	Range	Accuracy @ 25°C	Input Impedance
J	-120 to 1000°C (-184 to 1832°F)	±1°C	3.12 MΩ
K	-200 to 1370°C (-328 to 2498°F)	±1°C	3.12 MΩ
T	-250 to 400°C (-418 to 752°F)	±1°C	3.12 MΩ
E	-100 to 900°C (-148 to 1652°F)	±1°C	3.12 MΩ
B	0 to 1820°C (32 to 3308°F)	±2°C (200 to 1820°C)	3.12 MΩ
R	0 to 1768°C (32 to 3214°F)	±2°C	3.12 MΩ
S	0 to 1768°C (32 to 3214°F)	±2°C	3.12 MΩ
N	-250 to 1300°C (-418 to 2372°F)	±1°C	3.12 MΩ
L	-200 to 900°C (-328 to 1652°F)	±1°C	3.12 MΩ
U	-200 to 600°C (-328 to 1112°F)	±1°C	3.12 MΩ
P	0 to 1395°C (32 to 2543°F)	±1°C	3.12 MΩ
W5	0 to 2315°C (32 to 4199°F)	±1°C	3.12 MΩ
W3	0 to 2315°C (32 to 4199°F)	±1°C	3.12 MΩ
LR	-200 to 800°C (-328 to 1472°F)	±1°C	3.12 MΩ
A1	0 to 2500°C (-32 to 4532°F)	±1°C	3.12 MΩ
A2	0 to 1800°C (-32 to 3272°F)	±1°C	3.12 MΩ
A3	0 to 1800°C (-32 to 3272°F)	±1°C	3.12 MΩ
M	-200 to 100°C (-328 to 212°F)	±1°C	3.12 MΩ
Pt50 (α = 0.00385)	-200 to 850°C (-328 to 1562°F)	±0.4°C	2.0 KΩ
Pt100 (α = 0.00385)	-200 to 850°C (-328 to 1562°F)	±0.4°C	2.0 KΩ
Pt200 (α = 0.00385)	-200 to 850°C (-328 to 1562°F)	±0.4°C	2.0 KΩ
Pt500 (α = 0.00385)	-200 to 850°C (-328 to 1562°F)	±0.4°C	2.0 KΩ
Pt1000 (α = 0.00385)	-200 to 350°C (-328 to 662°F)	±0.4°C	2.0 KΩ
Pt50 (α = 0.00391)	-200 to 850°C (-328 to 1562°F)	±0.4°C	2.0 KΩ
Pt100 (α = 0.00391)	-200 to 850°C (-328 to 1562°F)	±0.4°C	2.0 KΩ
JPT50 (α = 0.003916)	-200 to 600°C (-328 to 1112°F)	±0.4°C	2.0 KΩ
JPT100 (α = 0.003916)	-200 to 600°C (-328 to 1112°F)	±0.4°C	2.0 KΩ
JPT200 (α = 0.003916)	-200 to 600°C (-328 to 1112°F)	±0.4°C	2.0 KΩ
JPT500 (α = 0.003916)	-200 to 600°C (-328 to 1112°F)	±0.4°C	2.0 KΩ
JPT1000 (α = 0.003916)	-200 to 350°C (-328 to 662°F)	±0.4°C	2.0 KΩ
Cu50 (α = 0.00426)	-50 to 200°C (-58 to 392°F)	±0.4°C	2.0 KΩ
Cu100 (α = 0.00426)	-50 to 200°C (-58 to 392°F)	±0.4°C	2.0 KΩ
Cu50 (α = 0.00428)	-180 to 200°C (-292 to 392°F)	±0.4°C	2.0 KΩ
Cu100 (α = 0.00428)	-180 to 200°C (-292 to 392°F)	±0.4°C	2.0 KΩ
Ni100 (α = 0.00617)	-60 to 180°C (-76 to 356°F)	±0.4°C	2.0 KΩ
Ni200 (α = 0.00617)	-60 to 180°C (-76 to 356°F)	±0.4°C	2.0 KΩ
Ni500 (α = 0.00617)	-60 to 180°C (-76 to 356°F)	±0.4°C	2.0 KΩ
Ni1000 (α = 0.00617)	-60 to 180°C (-76 to 356°F)	±0.4°C	2.0 KΩ
Cu10 (α = 0.00427)	-200 to 260°C (-328 to 500°F)	±1.0°C	2.0 KΩ
±20 mA	-26 to 26 mA	±0.05%	75 Ω
±60 mV	-122 to 122 mV	±0.05%	3.12 MΩ
±200 mV	-243 to 243 mV	±0.05%	3.12 MΩ
±1V	-1.58 to 1.58V	±0.05%	3.12 MΩ
±2V	-3.16 to 3.16V	±0.05%	3.12 MΩ
±6V	-6.32 to 6.32V	±0.05%	3.12 MΩ
±20V	-25.3 to 25.3V	±0.05%	3.12 MΩ
±50V	-50.6 to 50.6V	±0.05%	3.12 MΩ
0.4 to 2V	-3.16 to 3.16V	±0.05%	3.1 2MΩ
1 to 5V	-6.32 to 6.32V	±0.05%	3.12 MΩ

**DIGITAL INPUT CARD  
(RD1000-6DI)**

**Channels:** 6 per card  
**Logic Low:** -5V min, 0.8V max  
**Logic High:** 3.5V min, 24V max  
**External Resistance:**  
**Pull-Down:** 1 K $\Omega$  max  
**Pull-Up:** 1.5 M $\Omega$  min  
**Frequency:** 100 Hz max

**RELAY OUTPUT CARD  
(RD1000-6R)**

**Channels:** 6 per card  
**Contact Form:** NO/NC (form C)  
**Relay Rating:** 5A/240 Vac; life cycles 200,000 for resistive load

**ANALOG OUTPUT CARD  
(RD1000-6AO)**

**Channels:** 6 per card  
**Range:** 4 to 20 mA, 0 to 20 mA, 0 to 5V, 1 to 5V, 0 to 10V  
**Resolution:** 16-bits  
**Accuracy:**  $\pm 0.05\%$  of span  
 $\pm 0.0025\%$  / $^{\circ}$ C  
**Load Resistance:** 0 to 500  $\Omega$  (current), 10 K $\Omega$  min (voltage)  
**Output Regulation:** 0.01% for full load change  
**Output Setting Time:** 0.1 second (stable to 99.9%)  
**Isolation Breakdown Voltage:** 1500 Vac at 50/60 Hz for 1 minute  
**Integral Linearity Error:**  $\pm 0.005\%$  of span  
**Temperature Effect:**  $\pm 0.0025\%$  of span/ $^{\circ}$ C

**STANDARD ETHERNET COMMUNICATIONS**

**Protocol:** Modbus<sup>®</sup> TCP/IP, 10/100 Base T  
**Ports:** AUI (Attachment Unit Interface) and RJ-45, auto-detect capability

**WEBSERVER**

**Description:** Used to view the RD1000/RD2000/RD3000 Series paperless recorder from a remote location via the Internet  
**Browser Requirements:** Internet Explorer 10 or higher, Google Chrome<sup>™</sup>  
**IP Address:** A Static IP address is required for the recorder. Obtain a Static IP address from your Internet service Provider (ISP). This IP address should be unique.

**COMM MODULE  
(OPTIONAL RS232/422/485 COMMUNICATIONS)**

**Interface:** RS232 (1 unit), RS485 or RS422 (up to 247 units)  
**Protocol:** Modbus protocol RTU mode  
**Address:** 1 to 247  
**Baud Rate:** 9.6 to 115.2 K bits/sec  
**Measured Data Bits:** 7 or 8-bits  
**Parity Bit:** None, even or odd  
**Stop Bit:** 1 or 2 bits

**ENVIRONMENTAL AND PHYSICAL**

**Operating Temperature:** 0 to 50 $^{\circ}$ C (32 to 122 $^{\circ}$ F)  
**Storage Temperature:** -30 to 70 $^{\circ}$ C (-22 to 158 $^{\circ}$ F)  
**Humidity:** 20 to 90% RH (non-condensing), maximum relative humidity of 90% RH is for ambient temperature up to 38 $^{\circ}$ C (100 $^{\circ}$ F) decreasing linearly to 50% RH at 50 $^{\circ}$ C (122 $^{\circ}$ F)  
**Altitude:** 2000 M maximum  
**Insulation Resistance:** 20 M $\Omega$  min @ 500 Vdc  
**Dielectric Strength:** 2300 Vac, 50/60 Hz for 1 minute between power terminal and earth  
**Vibration Resistance:** 10 to 55 Hz, 10m/s<sup>2</sup> for 2 hours

**Shock Resistance:** 30m/s<sup>2</sup> (3g) for operation, 20 g for transportation  
**Operation Position:** no inclined restriction

**Dimensions (Panel Mount Style):**

**RD1000/RD2000 Series:**  
 144 H x 144 W x 189 mm D  
 (5.67 x 5.67 x 7.44")

**RD3000 Series:**  
 288 H x 288 W x 189 mm D  
 (11.34 x 11.34 x 7.44")

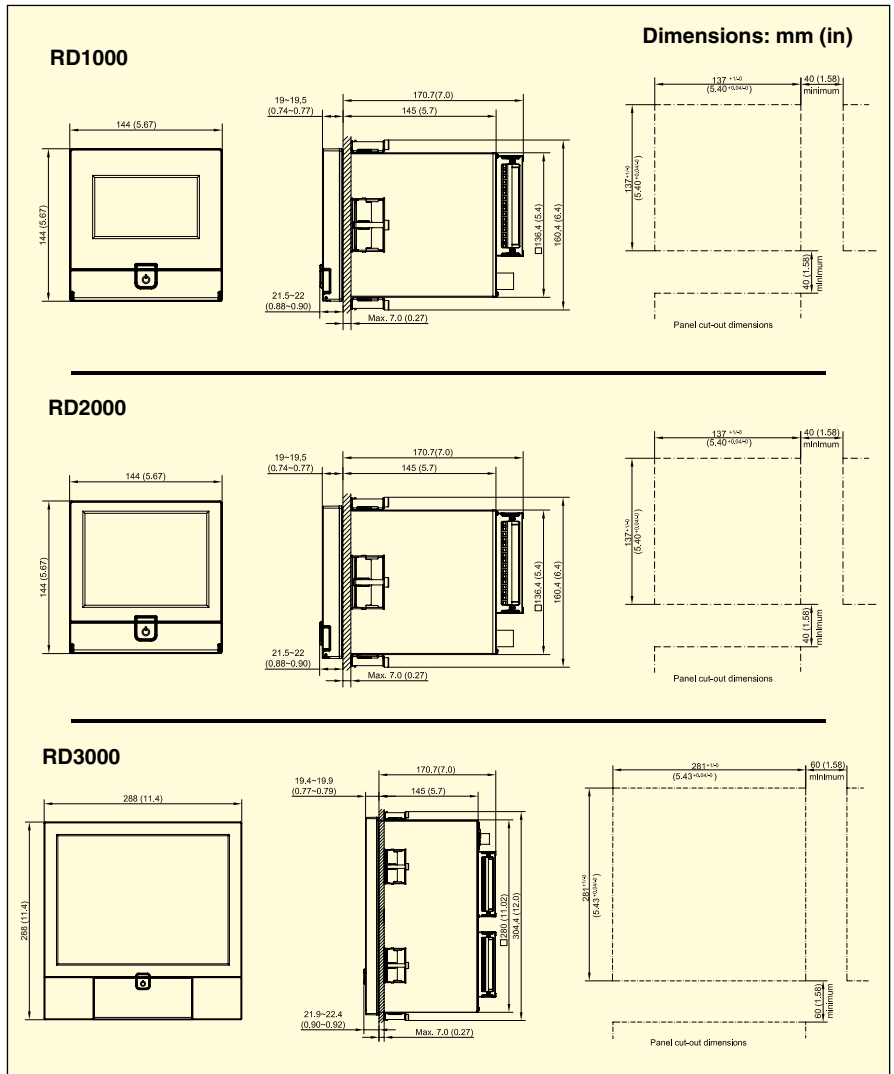
**Standard Panel Cutout:**

**RD1000/RD2000 Series:**  
 137 x 137 mm (5.39 x 5.39")

**RD3000 Series:** 281 x 281 mm  
 (11.06 x 11.06")

**Mounting Depth Behind Panel:**  
 171 mm (6.73")

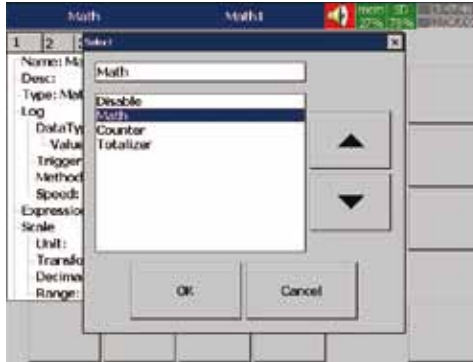
**Enclosure:** IP65 front panel for indoor use; IP20 housing and terminals



**Plus Version of Firmware—Supports Additional Features Including Math**

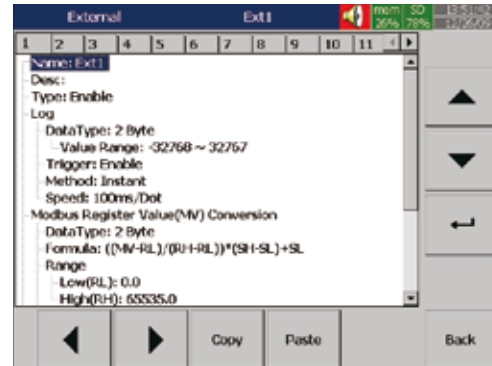
**CFR Part 11 Compliance**

**Math**



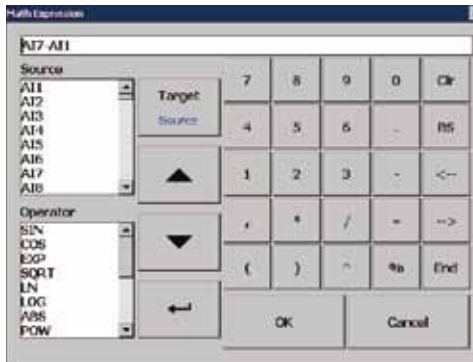
Includes Math, Counter and Totalizer.

**External Channels.**

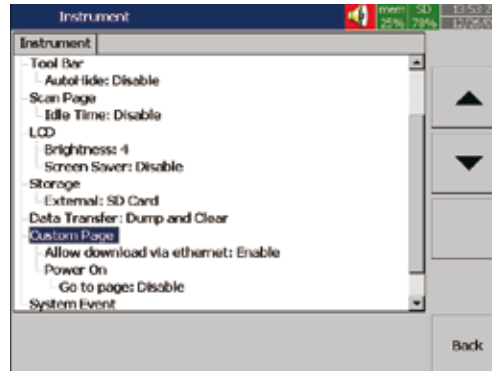


Besides AI and DI inputs, these recorders accept inputs through communication called External Channels. RD1000, RD2000, and RD3000 Series recorders can accept up to 24, 48 and 96 channels respectively.

**Math expression is easily keyed in.**



**Custom Edited Display.**



In Plus versions, Panel Studio software allows the user to edit the specific display instead of the standard display. It can then be downloaded to the recorder.

**Batch Control:** Batch production record is constantly required for more strict production, for example food and drugs.

**FDA 21 CFR part 11:** This feature complies with U.S. Food and Drug Administration. All data can not be manipulated after recording.

**Firmware Options (for Additional Cost)**

Add Suffix to Model No.	Description
-FW1	Plus version 1 with extra math, external channels, batch and FDA 21 CFR Part 11
-FW2	Plus version 2 with custom edited display and Panel Studio editing software
-FW3	Plus version 3 includes all items in Plus versions 1 and 2

**Mounting Options (for Additional Cost)**

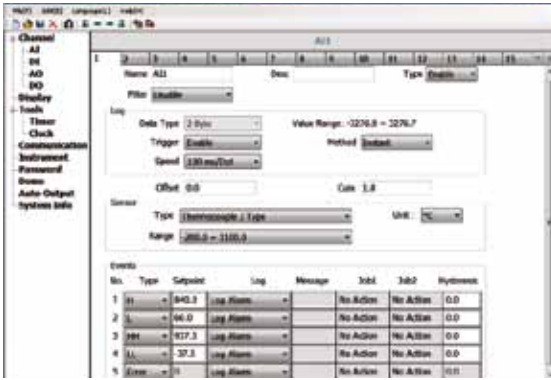
Standard Configuration is Panel Mount, No Power Cord, No Power Switch

Add Suffix to Model No.	Description
-1	Panel mount, no power cord, power switch (no additional cost)
-2	Portable, power cord, power switch
-3	Portable, VDE power cord, power switch
-4	Portable, SAA power cord, power switch
-5	Portable, BS power cord, power switch
-6	Portable, GB power cord, power switch

## Standard Software (Included)—Consists of Configurator

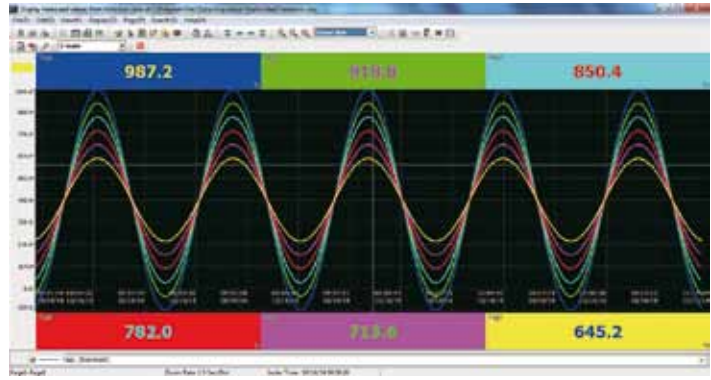
Rometec srl - [www.rometec.it](http://www.rometec.it) - [info@rometec.it](mailto:info@rometec.it) - Rometec srl - [www.rometec.it](http://www.rometec.it) - [info@rometec.it](mailto:info@rometec.it)

Configuration screen



User can easily configure the recorder on a PC and then send the configuration files to the recorder.

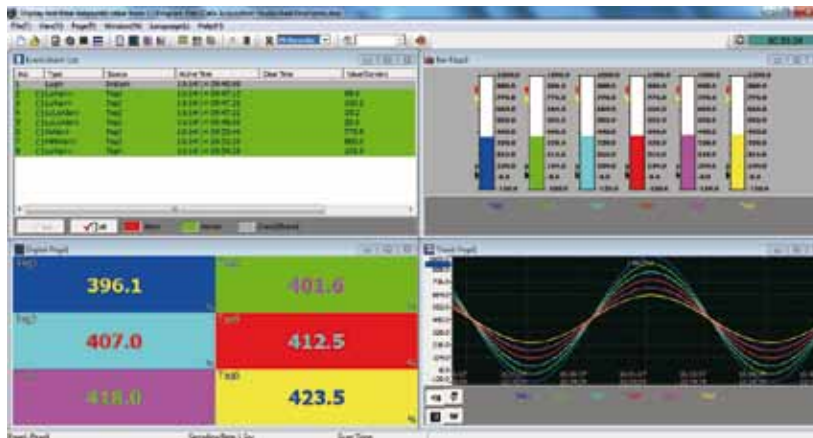
Historical viewer



Displays historical trends, alarms, events and then print it. Use it to search data by time, time period, tag, alarm, events and remarks. Data can also be exported in CSV format.

## Enhanced Data Acquisition Studio Software (Optional)

Real time viewer



RD1000-SW Data Acquisition Studio Software (ordered separately)—adds Real Time Viewer

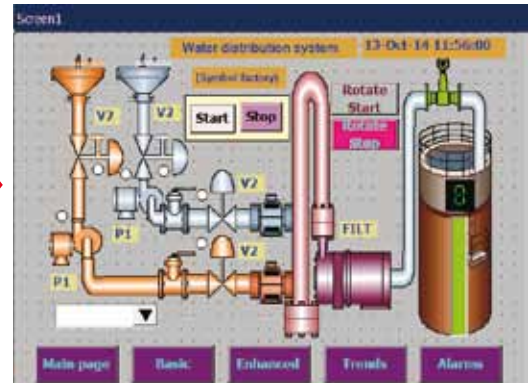
## Panel Studio Software (Included with Plus Version of 2 or 3 of Firmware)

Panel Studio software

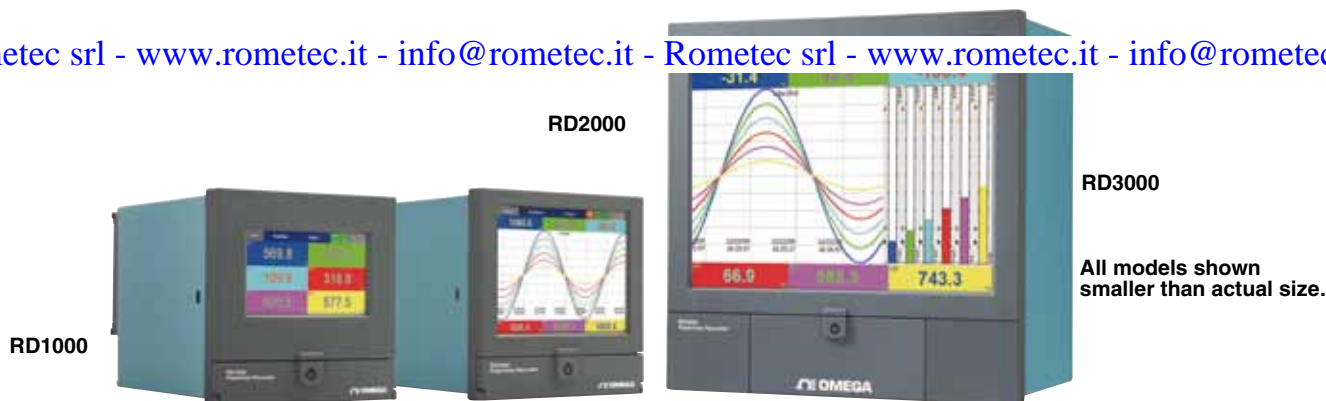


Use Panel Studio for easy custom display editing on a PC, then download to the recorder. The custom edited displays can be viewed in addition to the standard displays.

Custom display downloaded to the recorder



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<b>To Order</b>	
<b>Model No.</b>	<b>Description</b>
<b>RD1000 Series Paperless Recorders with 4.3" TFT Display, 4 Slots, up to 6 Analog Inputs</b>	
<b>RD1003</b>	Recorder, 3-input, 3 spare I/O slots (includes one RD1000-3AI card)
<b>RD1006</b>	Recorder, 6-input, 3 spare I/O slots (includes one RD1000-6AI card)
<b>RD2000 Series Paperless Recorders with 5.6" TFT Display, 4 Slots, up to 24 Analog Inputs</b>	
<b>RD2003</b>	Recorder, 3-input, 3 spare I/O slots (includes one RD1000-3AI card)
<b>RD2006</b>	Recorder, 6-input, 3 spare I/O slots (includes one RD1000-6AI card)
<b>RD2012</b>	Recorder, 12-input, 2 spare I/O slots (includes two RD1000-6AI cards)
<b>RD2018</b>	Recorder, 18-input, 1 spare I/O slots (includes three RD1000-6AI cards)
<b>RD2024</b>	Recorder, 24-input, no spare I/O slots (includes four RD1000-6AI card)
<b>RD3000 Series Paperless Recorders with 12.1" TFT Display, 16 Slots, up to 48 Analog Inputs</b>	
<b>RD3006</b>	Recorder, 6-input, 15 spare I/O slots (includes one RD1000-6AI card)
<b>RD3012</b>	Recorder, 12-input, 14 spare I/O slots (includes two RD1000-6AI cards)
<b>RD3018</b>	Recorder, 18-input, 13 spare I/O slots (includes three RD1000-6AI cards)
<b>RD3024</b>	Recorder, 24-input, 12 spare I/O slots (includes four RD1000-6AI cards)
<b>RD3030</b>	Recorder, 30-input, 11 spare I/O slots (includes five RD1000-6AI cards)
<b>RD3036</b>	Recorder, 36-input, 10 spare I/O slots (includes six RD1000-6AI cards)
<b>RD3042</b>	Recorder, 42-input, 9 spare I/O slots (includes seven RD1000-6AI cards)
<b>RD3048</b>	Recorder, 48-input, 8 spare I/O slots (includes eight RD1000-6AI cards)
<b>Options (Field Installable in Spare I/O Slots, One Slot Required for Each Module)</b>	
<b>RD1000-3AI</b>	Analog input card, 3 channel
<b>RD1000-6AI</b>	Analog input card, 6 channel
<b>RD1000-6DI</b>	Digital input card, 6 channel
<b>RD1000-6R</b>	Relay output card, 6 relays
<b>RD1000-3R-3DI</b>	Relay output/digital input card, 3 relays, 3 inputs
<b>RD1000-6AO</b>	Analog output card, 6 outputs

### Accessories

<b>Model No.</b>	<b>Description</b>
<b>RD1000-SW</b>	Data acquisition studio software
<b>2GB-SD</b>	Spare 2GB SD card

Comes complete with operator's manual, panel mounting brackets and standard software.

**Notes:** Recorder offers Ethernet interface as standard. To include RS232 communications add "-RS232" suffix to model number for an additional cost. To include RS422/485 communications add "-RS422/485" suffix to model number for an additional cost. Standard power for recorders is 90 to 250 Vac, 47 to 63 Hz. To order recorder with optional 11 to 36 Vdc power, add suffix "-DC" to model number, no additional cost.

**Ordering Example:** RD1006, recorder with 6 inputs, plus RD1000-DI6, digital input card, plus RD1000-SW data acquisition studio software