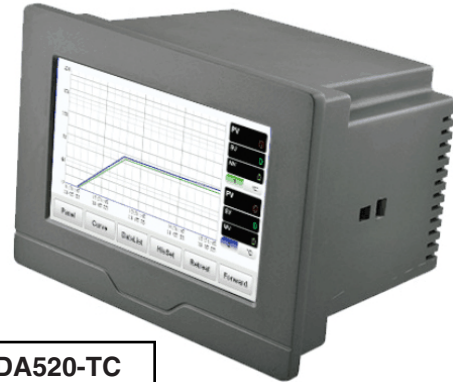


The RDA Paperless Recorder Series is a value priced large format touch screen datalogger that integrates measurement, display, alarm, and datalogging into one slim instrument. The RDA Series is available in both 5" and 7" display models. The instrument is easy to install and requires no external HMI. Depending on the model, the RDA Series can support 2, 4 or up to 6 input channels with either thermocouple or RTD input type with 0.2% FS measuring accuracy. Each channel can have independent input specification, with square-root, multiplication, addition and subtraction. All channels are equipped with digital adjustment and filtering functions.

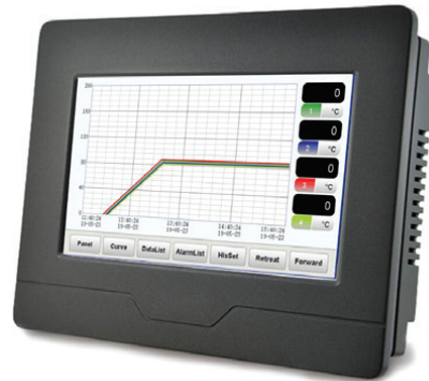
The RDA Series provides a real time trend records via trend graph or bar graph. History and alarm records can be reviewed in the logger itself with 150MB of internal storage or exported to external USB storage device. The RDA-740 and RDA-760 models have a slim installation depth of 40mm of for use where installation space is limited.

Features

- Color TFT Touch Screen Display: 5" or 7"
- 2 Isolated Inputs for Thermocouple or RTD models
- 2 Internal Alarm setpoints per channel
- Maximum sample rate of 1 Hz
- Exportable data via USB Drive
- Low power consumption ($\leq 5W$)



**RDA520-TC
RDA520-RTD**



**RDA740-TC RDA760-TC
RDA740-RTD RDA760-RTD**

| Omega model | RDA-520-RTD | RDA-520-TC | RDA-740- RTD | RDA-740- TC | RDA-760- RTD | RDA-760- TC |
|----------------------------------|--|------------|--|-------------|--------------|-------------|
| Dimensions | | | | | | |
| Diagonal Display Size | 5 inches (127mm) | | 7 inches (177.8mm) | | | |
| External Size | 5.71 x 4.13 x 3.94 inches (145 x 105 x 100mm) (Width*Height*Depth) | | 7.99 x 6.10 x 1.57 inches (203 x 155 x 40mm) (Width*Height*Depth) | | | |
| Installation Opening Size | 5.71 x 4.13 x 3.94 inches (145 x 105 x 100mm) (Width*Height*Depth) | | 7.56 x 5.47 inches (192 x 139mm) (Width*Height) | | | |
| Display | | | | | | |
| Color | TFT True Color | | | | | |
| Resolution | 800*480 | | | | | |
| Backlit | Long-life LED | | | | | |
| Input Method | Screen Touching | | | | | |

| Omega model | MDA-520-RTD | MDA-520-TC | MDA-740- RTD | MDA-740- TC | MDA-760- RTD | MDA-760- TC |
|-------------------------------------|---|--|--|--|---|--|
| Memory | | | | | | |
| Storage | 150MB | | | | | |
| Recording Interval (seconds) | 1, 2 3, 4, etc. User Defined | | | | | |
| Instrument Input | | | | | | |
| Input Type | Two 2-wire RTD Pt100, Cu50, 0-80ohm, 0-400ohm, etc (Two inputs share one common port) | Two thermo-couples K, S, R, E, J, T, B, N, WRe5-WRe2 6 | Four 2-wire RTD Pt100, Cu50, 0-80ohm, 0-400ohm, etc (Every two inputs share one common | Four thermo-couples K, S, R, E, J, T, B, N, WRe5-WRe2 6 | Six 2-wire RTD Pt100, Cu50, 0-80ohm, 0-400ohm, etc (Every Two inputs share one common | Six thermo-couples K, S, R, E, J, T, B, N, WRe5-WRe2 6 |
| Measurement Accuracy | 0.2%FS 1 digit / 0.3%FS 1 digit (only for Cu50) | 0.2% FS 1 digit. Internal cold junction compensation (CJC) will require an additional 1°C CJC error to be taken into consideration. The stated accuracy for type B thermocouple is only guaranteed between 600~1800°C (+1112 ~ +3272°F). | 0.2%FS 1 digit / 0.3%FS 1 digit (only for Cu50) | 0.2% FS 1 digit. Internal cold junction compensation (CJC) will require an additional 1°C CJC error to be taken into consideration. The stated accuracy for type B thermocouple is only guaranteed between 600~1800°C (+1112 ~ +3272°F). | 0.2%FS 1 digit / 0.3%FS 1 digit (only for Cu50) | 0.2% FS 1 digit. Internal cold junction compensation (CJC) will require an additional 1°C CJC error to be taken into consideration. The stated accuracy for type B thermocouple is only guaranteed between 600~1800°C (+1112 ~ +3272°F). |
| Response Time | ≤1.5 seconds (digital filter parameter dL is set as 0 or 1) | | | | | |
| Temperature Drift | ≤0.01%FS/°C (Typical 50ppm/°C) | | | | | |

| Omega model | RDA-520-RTD | RDA-520-TC | RDA-740- RTD | RDA-740- TC | RDA-760- RTD | RDA-760- TC |
|------------------------|--|---|---|---|---|---|
| Measuring Range | Pt100: -200 ~ +800°C (-328 ~ +1472°F) Cu50: -50 ~ +150°C (-58 ~ +302°F) | K -50 ~ +1300°C (-58 ~ +2372°F), S -50 ~ +1700°C (-58 ~ 3092°F) , R -50 ~ +1700°C (-58 ~ 3092°F, T -200 ~ + 350°C (-328 ~ +662°F), E 0 ~ +800°C (+32 ~ 1472°F) , J 0 ~ +1000°C (+32 ~ 1832 F), B +200 ~ +1800°C (+392 ~ 3272 F), N 0 ~ +1300°C (+32 ~ 2372°F), WRe3~WRe5 0 ~ +2300°C (+32 ~ +4172°F), WRe5~WRe26 0~+2300°C (+32 ~ +4172°F) | Pt100: -200 ~ +800°C (-328 ~ +1472 F) , Cu50: -50 ~ +150°C (-58 ~ +302 F) | K -50 ~ +1300°C (-58 ~ +2372°F), S -50 ~ +1700°C (-58 ~ 3092°F) , R -50 ~ +1700°C (-58 ~ 3092°F, T -200 ~ + 350°C (-328 ~ +662°F), E 0 ~ +800°C (+32 ~ 1472°F) , J 0 ~ +1000°C (+32 ~ 1832°F), B +200 ~ +1800°C (+392 ~ 3272°F), N 0 ~ +1300°C (+32 ~ 2372°F), WRe3~WRe5 0 ~ +2300°C (+32 ~ +4172°F), WRe5~WRe26 0~+2300°C (+32 ~ +4172°F) | Pt100: -200 ~ +800°C (-328 ~ +1472°F) , Cu50: -50 ~ +150°C (-58 ~ +302°F) | K -50 ~ +1300°C (-58 ~ +2372°F), S -50 ~ +1700°C (-58 ~ 3092°F) , R -50 ~ +1700°C (-58 ~ 3092°F, T -200 ~ + 350°C (-328 ~ +662°F), E 0 ~ +800°C (+32 ~ 1472°F) , J 0 ~ +1000°C (+32 ~ 1832°F), B +200 ~ +1800°C (+392 ~ 3272°F), N 0 ~ +1300°C (+32 ~ 2372°F), WRe3~WRe5 0 ~ +2300°C (+32 ~ +4172°F), WRe5~WRe26 0~+2300°C (+32 ~ +4172°F) |

General Specification

| | | | | | | |
|--|---|--|--|------------------|--|--|
| Electromagnetic Compatibility (EMC) | 4KV/5KHz according to IEC61000-4-4 (Electrical Fast Transient); 4KV according to IEC61000-4-5 (Electrical Surge). | | | | | |
| Isolation Withstanding voltage | Among power, relay contact or signal terminals 2300VDC. Among isolated electroweak terminals 600V | | | | | |
| Power Supply | 100~240VAC, -15%, +10% / 50~60Hz | | | | | |
| Power Consumption | ≤5W | | | | | |
| Operating Environment | Temperature -10~+60°C (+14 ~ +140 F) Humidity 90%RH | | | | | |
| Storage Temperature | -20 ~ +80°C (-4 ~ +176 F) | | | | | |
| Unit Weight | 1.21 lbs (0.55kg) | | | 1.54 lbs (0.7kg) | | |
| Cooling Method | Natural Air Cooling | | | | | |