

RDP15 Paperless Recorder/Data Logger For Up to Four Thermocouples, RTDs or Process Signals with 5 Inch Display



- Four Instruments in One: Data Logger, Paperless Trend Recorder, Panel Meter and Industrial Controller
- Configurable for up to 4 Inputs, Thermocouples/Millivolt, 0-5vdc, 0-10vdc, 0-20mA, RTD
- Trend and Tabular Display
- Data Logging to Excel Compatible Format
- 2 Alarm Relays
- View and Log Real Time and Historical Alarm Data
- Easy to Use Touch Screen Display
- Password Lockout for Configuration Menus

The RDP15 is a data logger, paperless trend recorder, multi-channel panel meter and industrial controller all in one instrument. The RDP15s 5-inch touch screen display provides access to features typically found in instruments many times its price.

Modular Design Allows Flexible Input and Output Configuration

The RDP15 features a modular input design which allows it to be configured for a variety of input configurations. It comes with two input modules which can accept one or two input signals. Input modules are available for the following sensor/signal types:

- Two channel thermocouple/millivolt
- Two channel 0-5vdc
- Two channel 0-10vdc
- Two channel 0/20mA
- Two channel 0/20ma with 24vdc power (only two of these modules can be used)
- Single Channel 3 Wire RTD(PT100, CU50)

The RDP15 will be shipped configured for the inputs specified at the time of ordering but the modules are field installable. Individual modules may be replaced or changed in the field.

Five Inch Touch Screen Display with Easy to Use Menu Navigation

The 5-inch touch screen display provides a clear view of the data from any of the different data views. In the Panel Meter Mode, each of the four channels is displayed on the screen in a separate meter large enough to read even from a distance. It is also easy to read when viewing the data as trend curves or tabular data.

The menu navigation is simple and intuitive. Although a detailed user manual is provided most of the recorder functionality is so intuitive it can be used without the manual or any training.

A Hardware Architecture Designed for an Industrial Environment

Independent processing for the graphic interface and data logging allows data to be collected in true real time without interference from the man-machine interface operations. This is important for logging and control functions for industrial or critical applications. Independent processing is accomplished while maintaining low power consumption.

Virtual and External Alarms

In the Panel Meter View, a visual indication of the alarm is shown on the screen when an alarm is generated. You can also enter the Alarm View Mode to see either the real time alarm data or historical alarm data. The Historical Alarm Data may also be exported to a USB flash drive in an Excel compatible format. The RDP15 also includes two 2A SPDT relays that may be connected to external alarm annunciators or control elements.

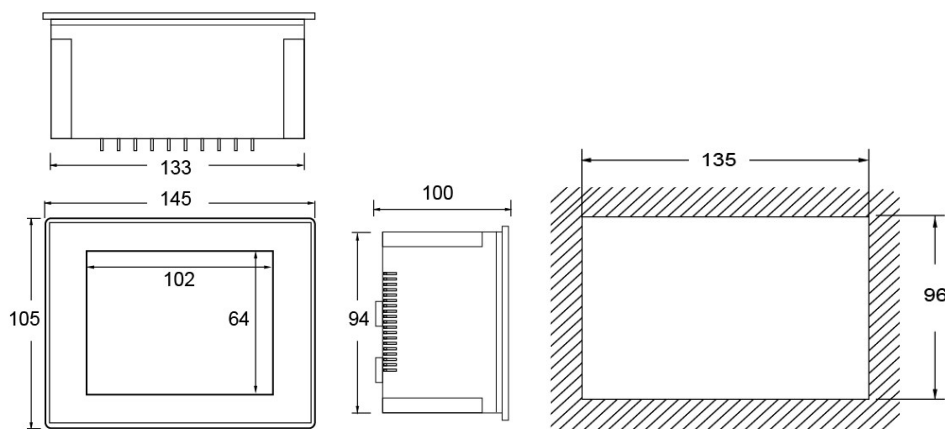
Data Logging

The RDP15 can log both historical data and alarm events. The RDP15 has 150M of storage space. The stored data can be played back on the recorder as a trend curve and/or table format. The data may also be exported to a PC in an Excel compatible format through the USB port to a USB flash drive.

To Order	
Model Number	Description
RDP15-(*)-(*)	RDP15 data logger. Insert input module code for each (*). Each module adds one or two analog inputs

Ordering Example: RDP15-J0-J4 : RDP15 with two thermocouple/mV inputs and two 4-20mA inputs

Input Module Code	Description
J0	1 Channel RTD Input
J1	2 Channel Thermocouple/Millivolt Input
J3	2 Channel 0/5Vdc Input
J31	2 Channel 0/10Vdc Input
J4	2 Channel 0-20mA/4-20mA Input
J5	2 Channel 0-20mA/4-20mA Input w/24Vdc power



Dimensions

Cut Out Size

Size

Display Size: 5 inches

Dimensions: 145 W × 105 H × 100 D (mm)

Cutout size: 135 W × 96 H × 96 D (mm)

Display

Color: TFT True Color

Resolution: 800 × 480

Backlight: Long-Life LED

Input Method: Touch

Touch Screen: Four-Wire Resistive

Recording/Memory

Recording Interval: 1 to 300 Seconds in 1 Second Intervals

Memory Capacity: 150MB.

Inputs

Number: 4(max) (Includes 2 Input Modules with 1 or 2 Channels each)

Accuracy: ± 0.2% FS ± 1 digit (± 0.2% FS ± 1 digit for CU50 RTD)

Note 1: When using the thermocouple inputs add 1 plus 1°C for cold junction compensation

Note 2: For B thermocouple accuracy only applies over range of 60-600°C

Input Modules

Two Channel Thermocouple/mV: K, S, R, E, J, T, B, N, C (WRe5-WRe26), 0-20mV, 0-100mV, 0- 1V

Two Channel Voltage: 0-5vdc

Two Channel Voltage: 0-10vdc

Two Channel Current: 0-20mA

Two Channel Current: 0-20mA with 24vdc Power

Temperature Measurement Ranges:

K (-50 to 1300 °C), S (-50 to 1700 °C), R (-50 to 1700 °C), T (-200 to 350 °C), E (0 to 800 °C), J (0 to 1000 °C), B (+200 to 1800 °C), N (0 to 1300 °C), WRe3~WRe25 (0 to 2300 °C), WRe5~WRe26 (0 to 2300 °C)

Temperature Units: °C

Response Time: ≤1.5 Seconds (with Digital Filter Set to 0 or 1)

Temperature Drift: ≤0.01% FS / °C (Typical Value 50ppm / °C)

Outputs: Two SPDT Relay Contact Output 250VAC / 2A

General

Power: 100~240VAC, -15%, + 10% / 50-60hz

Power: ≤6.5W

Environment: Temperature: -10 °C~+ 60 °C; Humidity: ≤ 90% RH

Storage Temperature: -20 °C~+ 80 °C

Weight: 0.55kg (1.2lbs)

Cooling: Natural Air Flow