


Honeywell DR4300 Circular Chart Recorder



# Honeywell DR4300 Circular Chart Recorder Instructions

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# Honeywell

Honeywell DR4300 Circular Chart Recorder



### Specifications:

- **Model:** DR4300
- **Chart Size:** 10-inch circular charts
- **Pen Configuration:** One or two pens
- **Display:** Available on DR4311 and DR4312 models
- **Power Input:** Line Voltage

### Product Usage Instructions

- **Connecting Analog Inputs:**

Connect the analog inputs to the TB2 assembly for pen 1 on the right side of the recorder. Ensure proper actuation wiring.

- **Connecting Instrument Power:**

Refer to the Product Manual for your specific model type for instructions on connecting instrument power using line voltage input.

### Instrument Configuration:

- **For recorder models WITHOUT display and keypad:**

Configuration switches SW1 and input switches SW6 are provided on each pen channel's printed circuit assembly.

- **For recorder models WITH display and keypad:**

Input switches SW6 are provided on each pen channel's printed circuit assembly.

### Upper Display:

The upper display shows the process variable (PV) for the selected input channel. It also indicates the status of output relays.

**Lower Display:**

The lower display shows operating parameter labels, values, and controller mode information.

**Ready to Start-Up:**

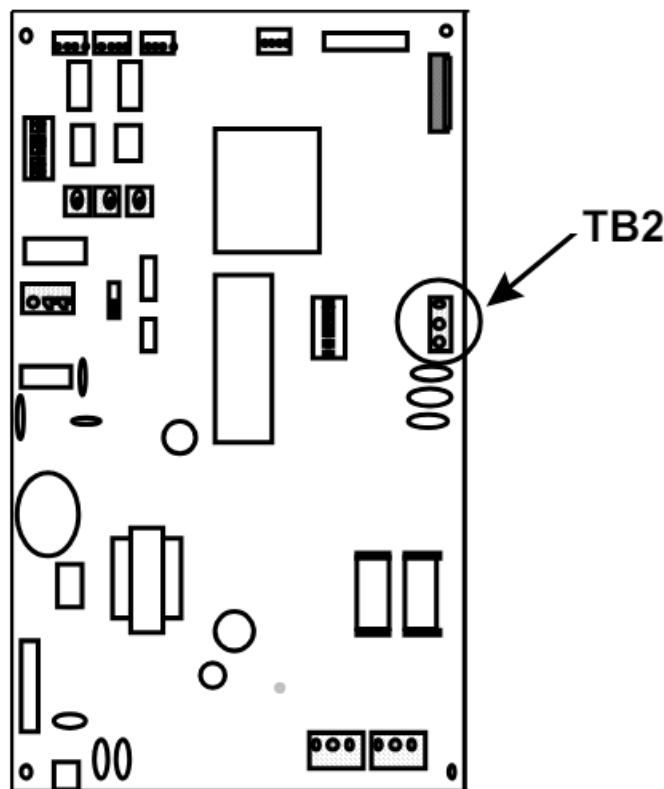
Refer to the Product Manual for setting the chart timeline. Turn on the power to start recording your input. For additional input and output options, refer to Section 2 in the manual.

**Technical Assistance:**

If you need technical assistance, dial 1-[800-423-9883](tel:800-423-9883) (USA and Canada) with your model number, serial number, and software version ready for support.

**Overview**

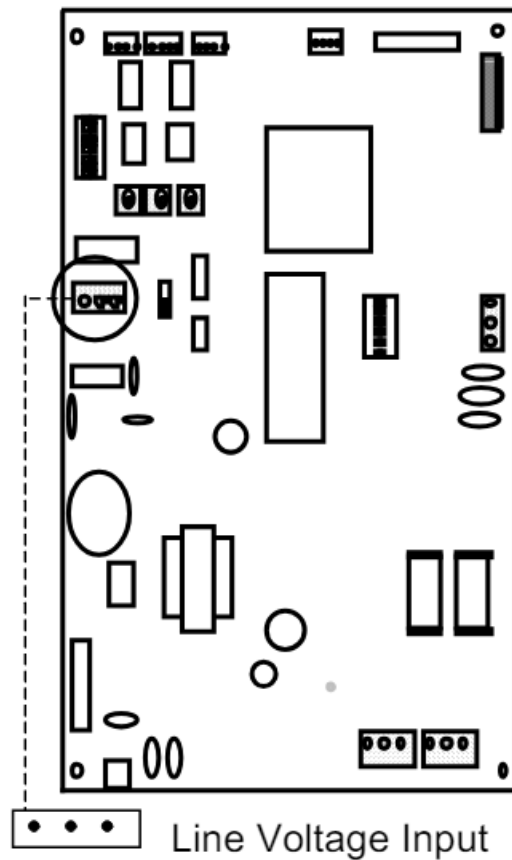
The DR4300 recorder is a one-two-pen microprocessor-based circular chart recorder providing reliable, convenient pen-drawn analog traces on preprinted 10-inch charts. Chart speed and range are configurable. In addition to generating pen-drawn chart traces, the DR4311 and DR4312 models include a display and keypad. This option lets you display the real-time value of the process variable for each pen channel, as well as other values. Each pen channel has its own printed circuit assembly, allowing the channels to operate independently.

**Connecting the Analog Inputs**

- Open the recorder door. Loosen the captive screw in the chart plate and swing the plate out.
- Locate terminal block TB2 on the right edge of the printed circuit assembly for pen 1 (right side of the recorder).
- Insert the wires under the appropriate screws for the applicable input type. Refer to Figure 2-9 in the Product Manual for specific input actuation wiring.
- Tighten the screws to secure the wires.
- If the recorder has two pens, repeat these steps for the second channel to TB2 on the pen 2 printed circuit assembly located on the left side of the recorder.

## Connecting Instrument Power

Separate recorder models are available for use with 100 Vac to 240 Vac or 20 Vdc to 27 Vdc power. (Refer to model number information in Section 1 – Overview of the Product Manual.)

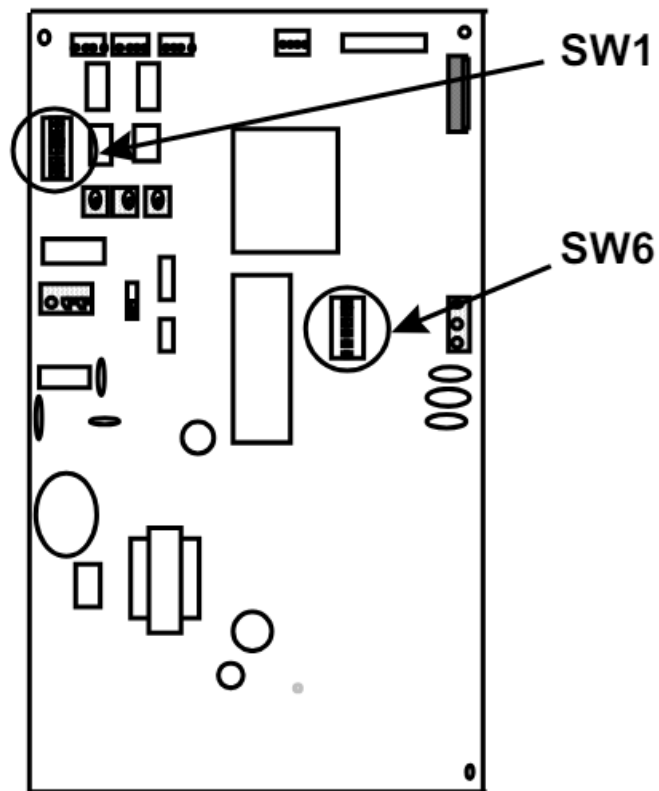


- Locate the power terminal block for your recorder model. Refer to Figure 2-7 (Models without CE Mark) or 2-8 (Models with CE Mark) in the Product Manual for your specific model type.
- Run power wires separately through conduit holes as indicated in Figure 2-5 or 2-6 in the Product Manual.
- Strip 1/4-inch maximum of insulation from the end of each wire and form end to fit under a screw connection.
- Install the power wires into the correct screw terminals, as shown in Figure 2-7 or 2-8 in the Product Manual, to avoid damaging the recorder.
- Refer to document 51-52-05-01 for additional information concerning noise interference prevention.

## Instrument Configuration

### For recorder models WITHOUT display and keypad

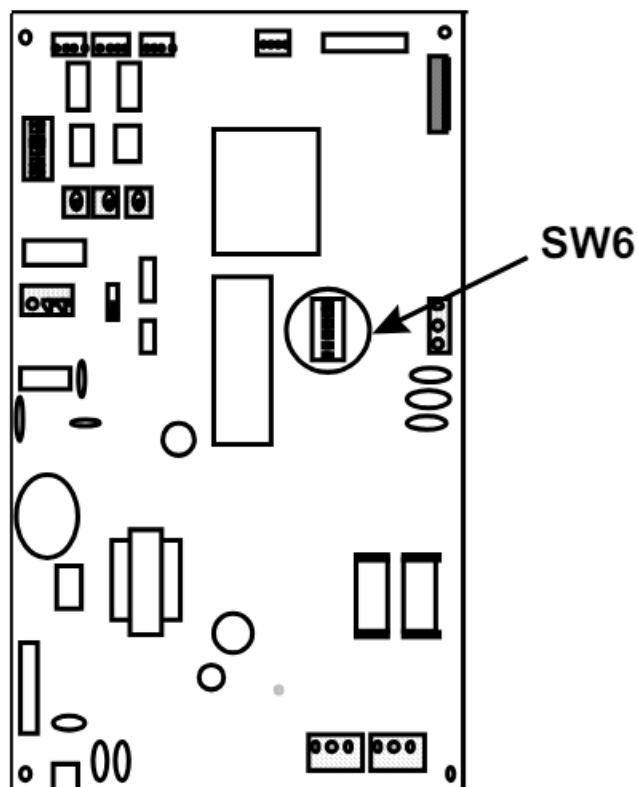
Configuration switches SW1 and input switches SW6 are provided on each pen channel's printed circuit assembly.



- Go to Table 3-2 in the Product Manual and find the desired combination of recorder selections and input type for the pen 1 channel.
- Set the switches in SW1 and SW6, as indicated in Table 3-2 of the Product Manual, for pen 1 on the printed circuit assembly on the right side of the recorder. (Pen 1 is purple.)
- Repeat for pen 2 on its printed circuit assembly, located on the left side of the recorder (if available).

**For recorder models WITH display and keypad**

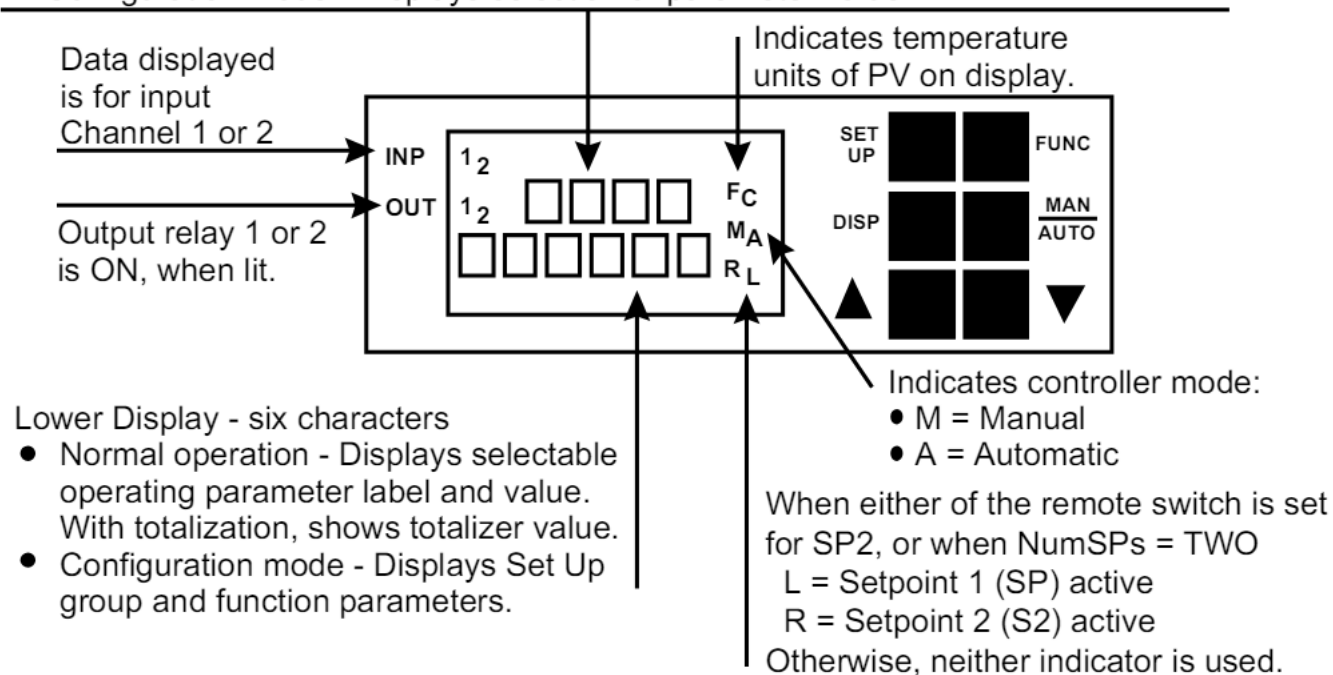
Input switches SW6 are provided on each pen channel's printed circuit assembly.



- Go to Table 4-3 in the Product Manual and find the desired input type for the pen 1 channel.
- Set the switches in SW6, as indicated in Table 4-3 of the Product Manual, for pen 1 on the printed circuit assembly on the right side of the recorder. (Pen 1 is purple.)
- Repeat for pen 2 on its printed circuit assembly, located on the left side of the recorder (if available).
- Go to Table 4-4 in the Product Manual for the configuration procedure. Refer to Figure 4-2 in the Product Manual for a sequenced prompt hierarchy and to Tables 4-5 through 4-18 for configuration parameter definitions.

#### Upper Display - four characters

- Normal operation - Displays process variable (PV) for the selected input channel.
- Configuration mode - Displays selection or parameter value.



## Ready to Start Up

Refer to Tables 3-5 or 4-22 in the Product Manual for the procedure to set the chart timeline. Turn on the power to the instrument and it will start recording your input. For information on connecting the other input and output options, refer to Section 2 in the Product Manual.

## Technical Assistance

If you encounter a problem with your DR4300 recorder, you can receive technical assistance by dialing 1-[800-423-9883](tel:800-423-9883) (USA and Canada). An engineer will discuss the problem with you. Please have your complete model number, serial number, and software version available.

## FAQ

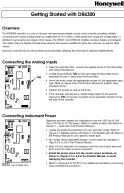
### • Q: How do I change the chart speed on the DR4300 recorder?

A: To change the chart speed, refer to the Configuration mode on the display and keypad options available on models DR4311 and DR4312. Follow the instructions provided in the Product Manual for detailed steps.

### • Q: Can I connect additional sensors to the DR4300 recorder?

A: Yes, you can connect additional sensors by following the instructions outlined in Section 2 of the Product Manual. Ensure proper wiring and configuration for accurate readings.

## Documents / Resources

	<p><a href="#">Honeywell DR4300 Circular Chart Recorder</a> [pdf] Instructions DR4311, DR4312, DR4300 Circular Chart Recorder, Circular Chart Recorder, Chart Recorder, Recorder</p>
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## References

- [User Manual](#)

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