

## Model DR4300 Circular Chart Recorder Upgrade/Replacement Instruction Totalizer Option Upgrade (51450899-501)

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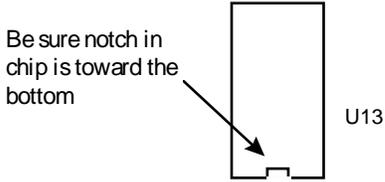
**Kit Contents**                      This kit contains a new Totalizer PROM and battery.

**Summary**                              Enclosed are a new Totalizer PROM and battery for your DR4300 recorder. Use the following procedures to install, configure, and initialize the Totalizer option. This option requires the display assembly to display the totalized value.

**WARNING**      Never access components inside the case with power applied.

**PROM Installation Procedure**      Follow the procedure in Table 1 to install the PROM on the Main printed circuit board.

**Table 1 – PROM Installation**

Step	Action
<b>1</b>	Power down the recorder. Open the chart door and swing the chart plate out. This permits access to the Main printed circuit board.
<b>2</b>	<i>If this is a replacement procedure</i> , use an extraction tool and remove the PROM at Location U13 on the Main printed circuit board.
<b>3</b>	Insert the new Totalizer Option PROM into U13 position on the Main board. Make sure all the pins of the PROM are aligned with the socket.  <div style="text-align: center;">  </div>
<b>4</b>	Follow the procedure in Table 2 to install the Totalizer battery.

**Battery Installation Procedure** Follow the procedure in Table 2 to install the Totalizer battery in the recorder case.

**Table 2 – Battery Installation**

Step	Action
<p><b>1</b></p>	<p><i>If this is a replacement procedure:</i></p> <ul style="list-style-type: none"> <li>Remove the old battery by pulling from Velcro mounting on the inside of the case.</li> <li>Disconnect cable from J1 on printed circuit assembly</li> </ul> <p><i>If this is an upgrade procedure:</i></p> <ul style="list-style-type: none"> <li>On Header J1 on the Main printed circuit board (for pen 1 and/or pen 2, as appropriate), cut <b>Pin 2</b> flush with the header base.</li> </ul> <div data-bbox="673 583 1003 783" style="text-align: center;"> <p><b>J1</b></p> <p>Cut pin 2 (2nd pin from right)</p> </div>
<p><b>2</b></p>	<p>Install new battery in pen 1 and/or pen 2 location. Remove the peel-off adhesive protector on the Velcro. Place the battery as shown, Velcro side down, onto the mating Velcro inside the cabinet.</p> <div data-bbox="456 905 1214 1648" style="text-align: center;"> </div> <p style="text-align: right; font-size: small;">24841</p>
<p><b>3</b></p>	<p>Connect to J1.</p>
<p><b>4</b></p>	<p>Close the chart plate and door.</p>
<p><b>5</b></p>	<p>Apply power and check the recorder for proper operation. The recorder should power up and pass all of its power up tests. See the Product Manual supplied with the recorder for details.</p>
<p><b>6</b></p>	<p>Follow the next procedures to configure (<i>upgrade installation</i>) and initialize the Totalizer option.</p>

**Configure the Recorder**

Follow the procedure in Table 3 to configure the recorder for Totalization.

**Table 3 – Configuration**

Step	Press	Result or Action
1		until TOTAL appears in the lower display. <i>For a 2-pen recorder, the desired input channel is displayed on the left side of the operator interface. Press [FUNC] key to select the channel, then press [SET UP] key.</i>
2		until you see: Upper Display  Lower Display 
	 OR 	to select ENAB.
3		until RATE appears in the lower display.
	 OR 	to select one of the following rates:.* SEC     Engineering units per second MIN     Engineering units per minute HOUR    Engineering units per hour DAY     Engineering units per day MDAY    Millions of units per day  <i>*Rate setting must equal engineering units (EU) of PV input.</i>
4		until SCALER appears in the lower display.
	 OR 	to select one of the following scaling factors:  1            1000            1E6 10           1E4            1E7 100          1E5            1E8
5		until RSTABL appears in the lower display.
	 OR 	to select how the totalizer value can be reset. NO        Totalizer value cannot be reset. KEY       Totalizer value can be reset from the keypad by setting the RESET parameter to YES. REM1*    Totalizer value will be reset when remote switch (digital input 1) goes to ON. REM2*    Totalizer value will be reset when remote switch (digital input 2) goes to ON.  <i>*Digital input card must be installed.</i>
6		Go to Table 4 to initialize the recorder.

## Initialize the Recorder

Follow the procedure in Table 4 to initialize the recorder.

**Table 4 – Initialization from Totalizer Setup Group**

Step	Press	Result or Action
1		until RESET appears in the lower display.
		to select YES.
2		The totalizer will reset to zero.
3		to return to the same state it was in before configuration (set up) mode was entered.

## Installing the Totalizer Option for Second Input

The procedure for installing the Totalizer option for the second input is the same except that the PROM should be installed on the *Second Input Main* board.

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