

Scope

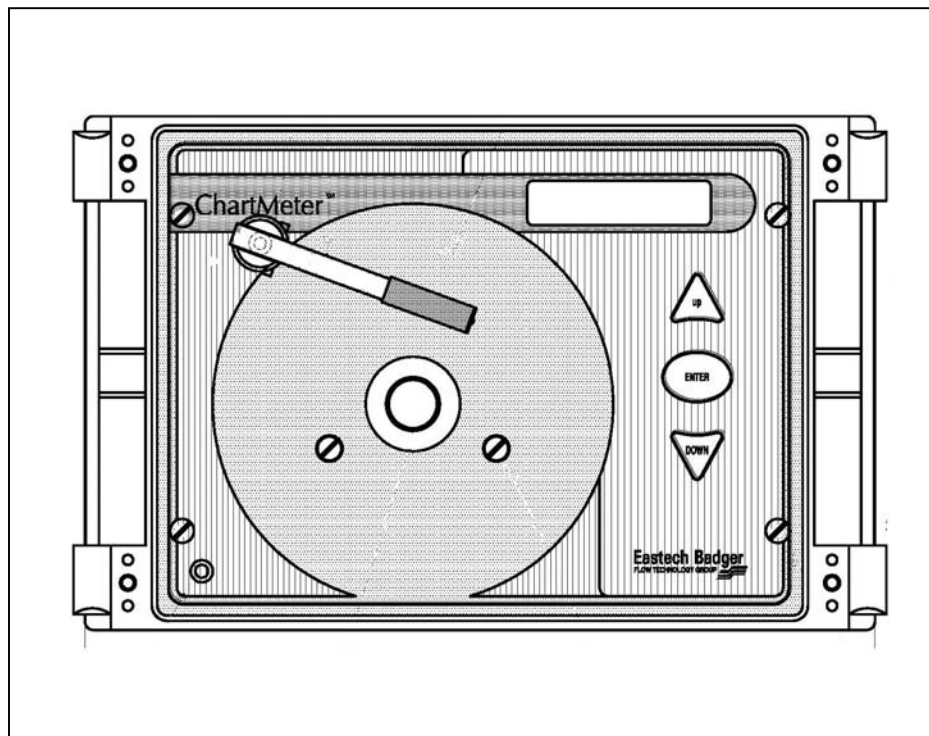
This manual contains information concerning the installation, operation and maintenance of the Chartmeter 5000. To ensure proper performance of the unit, the instructions should be thoroughly understood and followed.

Keep the manual in a readily accessible location for future reference.

Changes and additions to the original edition of this manual will be covered by a "CHANGE NOTICE" supplied with the manual. The change notice will identify the sections in this manual where the changes have occurred.

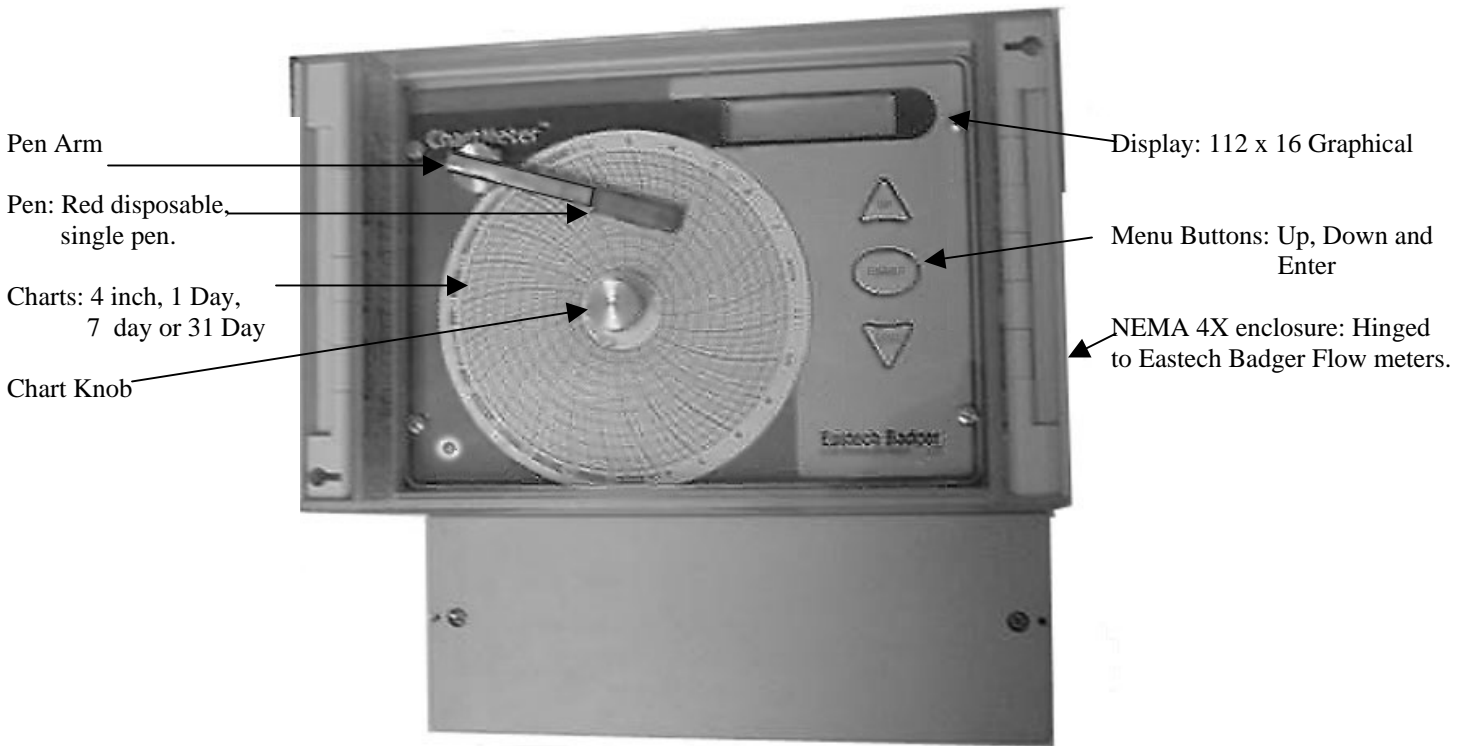
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General Specifications

Display	112 x 16 graphical display.
Programming	Front panel mounted 3 button keypad.
Power	Powered by associated flow meter +12VDC
Accuracy	$\pm 0.05\%$ Full Scale
Electronic Enclosure	IP66/NEMA 4X standard, temperature range: -4° to 158° F (-20° to 70° C)
Charts	4 Inch (100mm) 24 hour, 7 day or 31 day



General Description

The following description applies to Chartmeter 5000.

The Chartmeter 5000 is a circular chart recorder to be used with Eastech Badger flow meters. The chart meter will be hinged to the front of the flow meter. The Chartmeter is a 4 inch circular chart recorder powered by the associated flow meter through the +12vdc output. The maximum flow or level indications of the display are determined by the 4-20madc settings of the flowmeter. The menu buttons on the front of the Chartmeter can be used to select chart rotations and zero/span of the pen. To enter the calibration portion of the chart meter use the following guidelines:

1. Press the “**Enter**” key. The following screen will be displayed.

Rotation Speed
Up key to Start

2. Press the “Up” key to select the chart rotation desired.

Rotation Speed
1 Day Rotation

3. Press either the “Up “ or “Down” key until the chart rotation desired is displayed on the screen.
1 Day, 7 Day or 31 Day.

4. Press the “Enter” key to store chart rotation.
5. The next screen to be displayed is the Pen Arm Calibration screen. This screen will allow the user to zero and span the pen to the chart.

Pen Arm Cal.
Up key to Start

6. Press the “Up” key to calibrate the pen to the chart.

Pen Zero Point
Up/Down to move

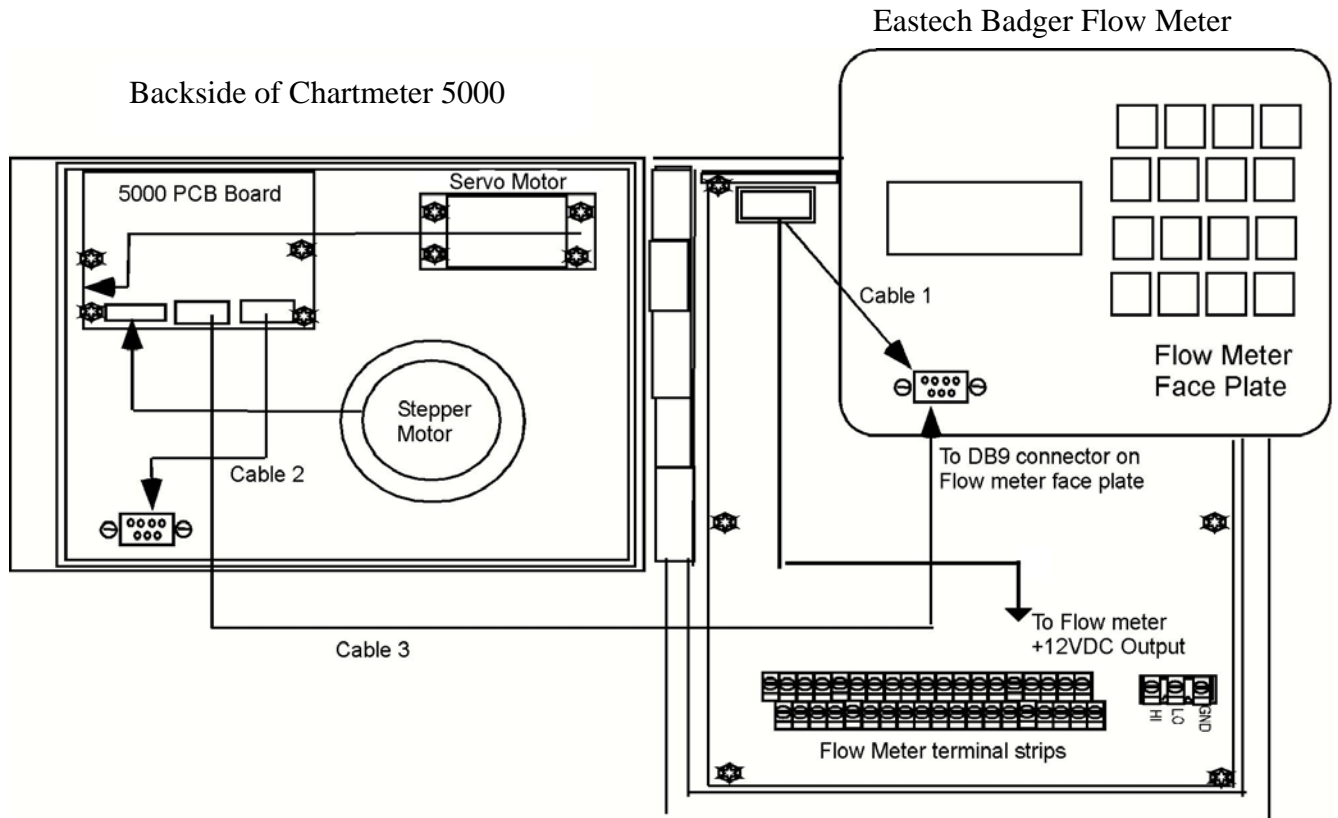
7. Press the “Up” or “Down” key to align the tip of the pen on the zero marking on the chart.

8. Press the “Enter” key when the pen is on the zero position.

Pen Span Point
Up/Down to move

9. Press the “Up” or “Down” key to align the tip of the pen on the span marking on the chart.
10. Press the “Enter” key when the pen is on the span position.
11. The last screen in the calibration menus displays the firmware revision of the Chartmeter.
12. Press the “Enter” key to return to main screen. Unit will operate only when main screen is displayed.

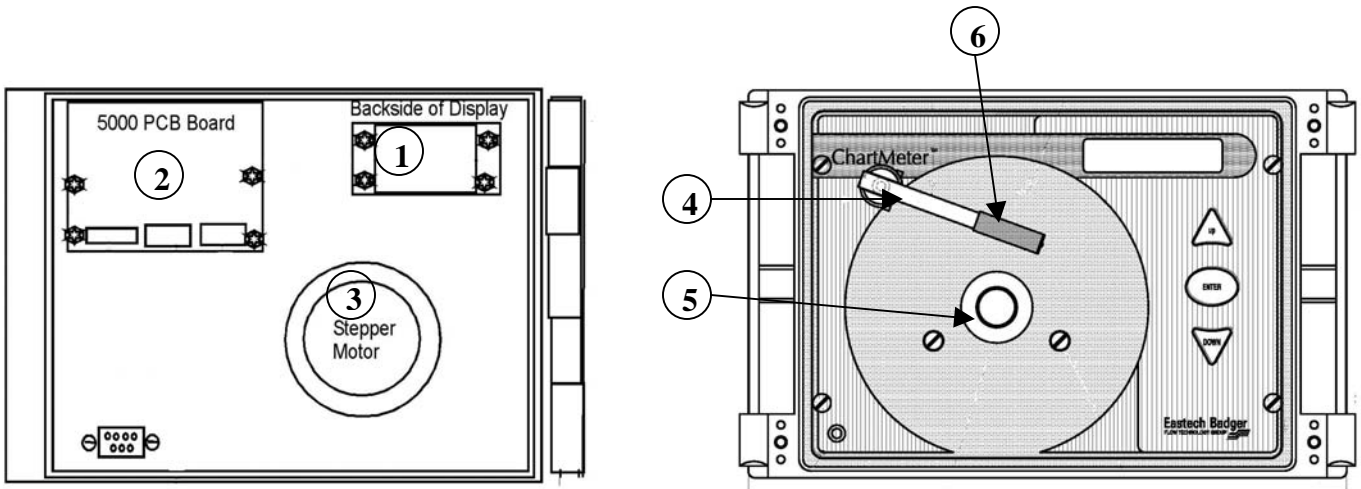
This completes the calibration of the Chartmeter 5000.



If you have purchased a Chartmeter 5000 with Eastech Badger Flow meter the wiring has been performed at the factory. You will need to follow the flow meter manual to mount the enclosure and wire the power input and associated sensors.

If you are mounting and wiring a new Chartmeter 5000 to an existing Eastech Badger flow meter:

1. Remove the existing cable 1 from the flow meter.
2. Replace with new cable. Plug into the db9 connector on the flow meter board and run the other end of the db9 connector and mount to the hole in the face plate of the flow meter.
3. There is a separate wire on the new Cable 1 that will be terminated on the flow meter terminal labeled +12vdc output. (Refer to the flow meter manual if necessary to located the +12vdc terminal).
4. Hinge the left side of the Chartmeter 5000 to the flow meter.
5. Run cable three to the newly installed Cable 1 on the flow meter face plate.
6. The new db9 connector for down loading the data logger will be the db9 connector on the inside of the chartmeter. (See Cable 2)
7. The maximum flow displayed on the Chartmeter 5000 will be the maximum flow that is programmed into the flow meter and represented by the 20madc output.
8. Set the Chartmeter 5000 chart rotation and pen zero/span. (See page 1-3)
9. Go into the associated flow meter program under the System Setup/Communications selection and select baud rate of 19200.



Item #	Part Number	Description
	513348	1 Day Chart, 0-100% 4" diameter
	513349	7 Day Chart, 0-100% 4" diameter
	513350	31 Day Chart, 0-100% 4" diameter
1	501765-0001	Servo, ultra precision
2	152017-9001	PCB Board and Display Assembly
3	501425-0001	Chart drive motor 75:1
4	528415-0001	Pen Arm
5	528418-0001	Chart Knob
6	500724-0002	Pen, Red fiber tip
	544708-0001	Cable, DB9 from PCB to flow meter front panel
	544576-0001	Cable, DB9 from PCB to back panel

WARRANTY

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