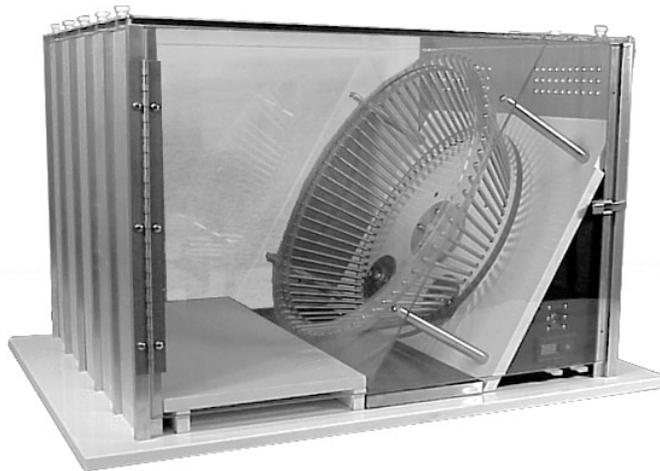


# ENV-045 SLANTED ACTIVITY WHEEL

## USER'S MANUAL



**DOC-225**  
**Rev. 1.0**

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## **CHAPTER 1**

### ***Overview***

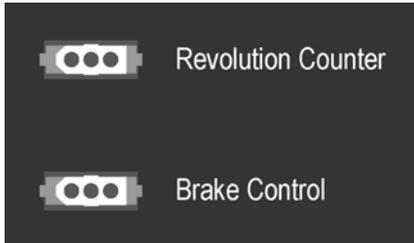
The ENV-045 Slanted Activity Wheel system includes a five bay modular unit with rest platform, stainless steel waste collection pan, and an activity wheel which is slanted 30 degrees from the vertical. The wheel rotations are recorded on the counter in the lower right section of the chamber face.

The ENV-045 Slanted Activity Wheel also has an electronic brake with ten levels of drag that can be selected via a thumbwheel switch. With the brake off, the drag of the wheel is approximately 25 grams; however, in order to match multiple wheels, nine discrete steps from 25 to 80 grams may be selected. The electronic brake requires a separate 28 VDC power supply. A 90-degree cam, micro-switch, and LCD digital counter is provided for stand-alone operation. The cam switch may also be connected to any MED Associates' standard input module, SuperPort™, or SmartCtrl™ for automated data collection. For critical research, activity wheels may be ordered with an optional optical encoder. This provides a resolution of 5.625 degrees or up to 64 counts per full revolution.

## CHAPTER 2

### *Connections (For Standard Activity Wheel Systems)*

*Figure 1 – Connection Panel*

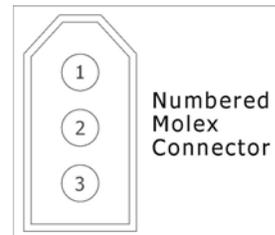


#### **Brake Control Connector**

The **Brake Control** connector is a male 3-pin mini-Molex. Using the supplied SG-218A cable, connect the Brake Control connector to any available Output on a standard MED Associates Connection Panel. The pin out and function for this connector is as follows:

*Table 1 – Brake Control Connector Pin Out*

Pin Number	Function
1	28 V Ground
2	Operate
3	+ 28 Volts DC



#### **Revolution Counter Connector**

The **Revolution Counter** connector is a male 3-pin mini-Molex. Using the supplied SG-218A cable, connect the Revolution Counter connector to any available Input on a standard MED Associates Connection Panel. The pin out and function for this connector is as follows:

*Table 2 – Revolution Counter Connector Pinout*

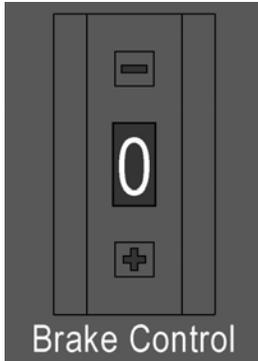
Pin Number	Function
1	28 V Ground
2	Normally Open Switch Contact
3	Not Used

## CHAPTER 3

### *Operating Instructions*

#### Electronic Brake Control

*Figure 2 – Brake Control Thumbwheel Switch*



Set the wheel drag tension by using the Brake Control thumbwheel switch mounted on the side of the control box. The drag tension has been factory set according to the chart below. It is possible to recalibrate the tension if desired. Call factory for details on recalibration.

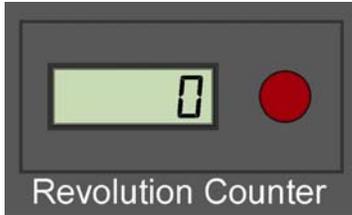
*Table 3 – Brake Control Thumbwheel Settings*

Thumbwheel Setting	Drag Tension (grams)
0	25
1	30
2	35
3	40
4	45
5	50
6	55
7	60
8	70
9	80

## Revolution Counter

*Figure 3 – Revolution Counter*

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The revolution counter will increment once for every quarter turn of the wheel. It will also provide a closed switch contact to the **Revolution Counter** output connector. To reset the counter, depress the small red button located on the face of the counter.