

Our new Smart Fan Accessory will blow you away.

Plug it into a Smart Cart!

- Turns on and off wirelessly
- Sense and control: Program thrust to respond to calculations from sensor measurements

Or use it in manual push-button mode (3 speeds) with any PASCO cart!



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Smart Fan Accessory

- ▶ Complete Control Over Force for All Dynamics Experiments
- ▶ Remote Control of All Functions
- ▶ Sense and Control
- ▶ Manual Mode for Non-Smart Carts

What makes this fan so smart?

If you use this fan on a regular cart, you can turn it on and select one of three speeds by pushing the button on the side. But plugging it into a Smart Cart gives this Smart Fan Accessory added capabilities:

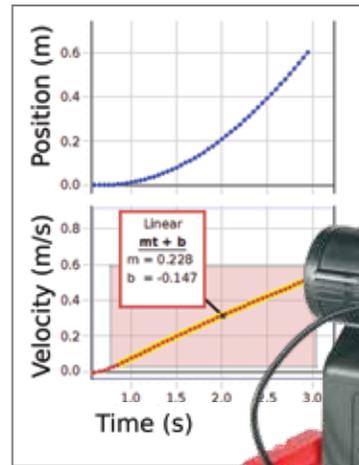
- ▶ **Hands-off Operation:** You can turn the Smart Fan on and off wirelessly from your computing device.
- ▶ **Adjust the Thrust:** Move the slider in the software and watch the fan respond.
- ▶ **Reverse the Spin of the Fan:** Input a negative thrust to make the fan blow in the opposite direction.
- ▶ **Set Start and Stop Conditions:** Choose to start the fan when a measurement (such as Position) reaches a certain value. Make the fan stop after a certain time so the cart coasts during part of the experiment.
- ▶ **Sense and Control:** Program the Smart Fan thrust to respond to a calculation based on sensor measurements, for example:
Thrust = -100*[Position]



This will cause the fan to blow harder as the cart moves down the track, causing the cart to reverse, and eventually the fan will reverse when the Position becomes negative, accelerating the cart in the positive direction.

Specifications

- ▶ Push-button for on/off: 3 speed settings
- ▶ Fits all PASCO dynamics carts
- ▶ Smart Cart required for extended Smart features
- ▶ Maximum Thrust: 0.2 N
- ▶ Uses 4 AA batteries (alkaline or rechargeable)
- ▶ Lithium Battery Performance: On medium speed, fan slows after 5.2 hrs and stops after 5.6 hrs.
- ▶ Alkaline Battery Performance: On medium speed, fan slows after 1 hr and stops after 8.9 hrs.
- ▶ PASCO Capstone software required for full feature set.
- ▶ SPARKvue software provides ON/OFF button and thrust slider.



The Smart Fan Accessory becomes smart when plugged into a Smart Cart.



This is the control panel for the Smart Fan in PASCO Capstone software.

Includes

- Smart Fan Accessory
- Smart Cart Cable (19 cm)
- 4 AA Alkaline Batteries



Order Information

Smart Fan AccessoryME-1242

Requires:
 Smart Cart or Dynamics Cart
 PASCO Capstone Software

Suggested:
 Battery Charger with
 8 AA Rechargeable BatteriesSE-3570

