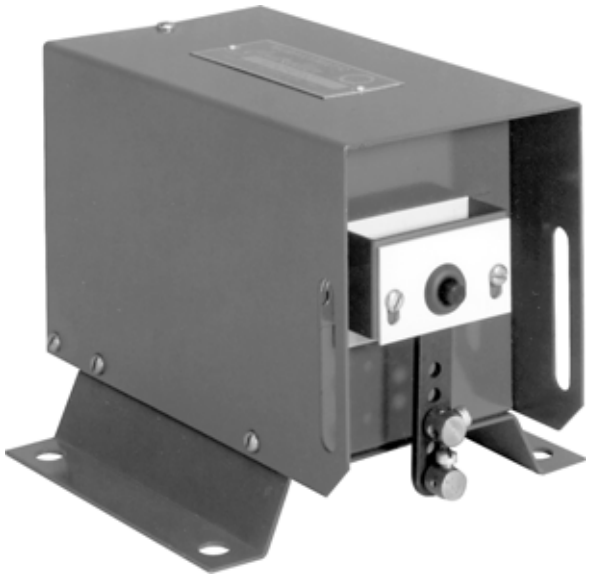
MURPHYMATIC® Engine Throttle Controller Model AT03069



Features

- Automatically adjusts engine speed to meet demands of pressure, level, load and temperature.
- Speed changes made slowly and smoothly.
- Saves fuel, engine wear, horsepower and labor.
- Perfect for warm-up and cool-down on automated systems.
- One model for both 12 and 24 VDC systems.

The AT03069 is a completely reliable heavy duty device developed specifically to automatically control engine speed to meet system demand. Low current, high torque, solid state switching and electronic clutch make it ideal for all automatic and semiautomatic engine systems. Used with the appropriate Murphy SWICHGAGE®, near constant pressure, level and load can be maintained. Check with our engineers for help with other applications where speed control can improve your system.

Applications

Pressure

- City Water Systems.
- Water Flood Injection.
- Sprinkler Lateral Changes.
- Make-up if a “Gang Pump” stops.
- Multiple Hose-reel Irrigation Systems.

Level

- Water or oil storage tanks.
- Waterflood tanks.
- Sewer disposal systems.
- Flood control catch basins.

Temperature

- Multi-engine cooling systems.
- Air conditioned chilled water systems.

Engine Load

- Empty or fill reservoirs with a lower horsepower engine—fast when head is high—slow when head is low.

Specifications

Voltage: 11-28 VDC negative ground.
Maximum Current: 500 mA (1/2 amp).
Standby Current: Approx. 7 mA.
Increase and Decrease: Inputs float at approx. 8.4 VDC. Grounding inputs causes 8-18 mA of current to flow from either.
Torque: 25 inch pounds.
Sealed limit switches: Factory adjusted, controls maximum travel.
Linkage adjustment on lever arm—5 holes: Adjusts travel: 1-3/16 in. (30 mm); 1-11/16 in. (43 mm); 2 in. (51 mm); 2-1/4 in.
(57 mm) approximately. Travel Time: 11 to 20 seconds depending on the voltage and force applied.
Dimensions: See reverse side.
Net Weight: 5 lb. (2.27 kg)

Features

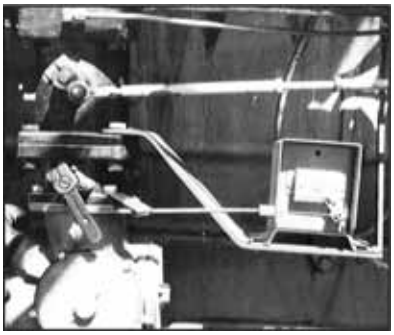
The AT03069 can enhance features of our SELECTRONIC® Micro-Controller units by allowing features such as:

- Warm-up RPM Set point.
- Minimum RPM Set point.
- Maximum RPM Set point.
- Preset Operating RPM Set point.
- Auto Throttling To Match Flows (as needed in flood control applications).
- Maintaining System Pressure (as needed in booster station application).
- Adjustable Rate Of Change In RPM (allowing fine tuning of overall system).

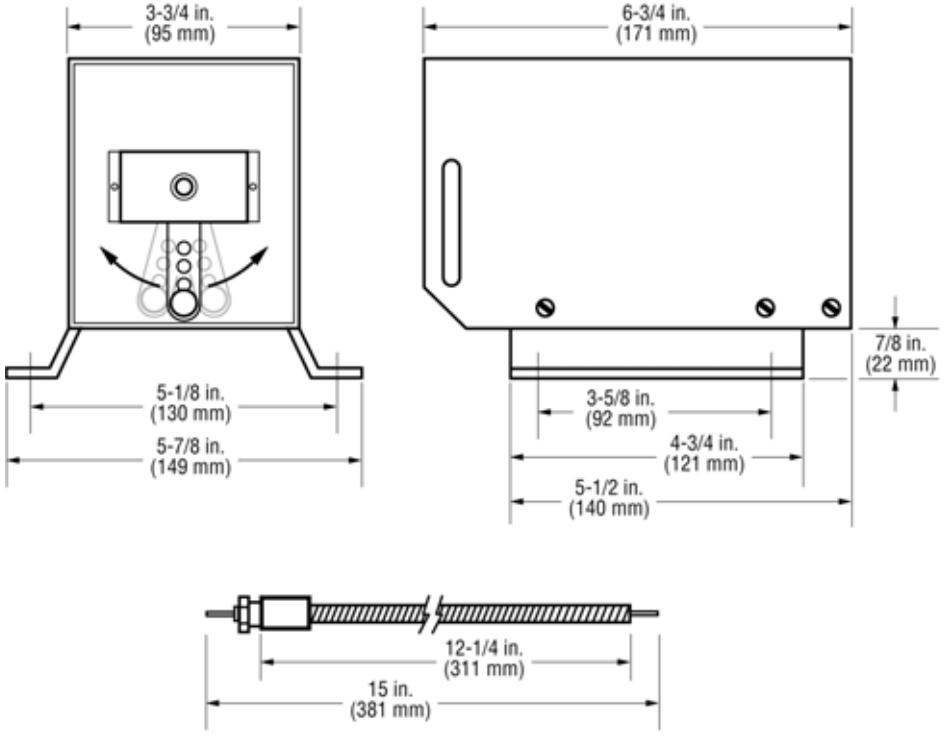
For more information, recommendations and quotations contact our engineering dept.

Operation

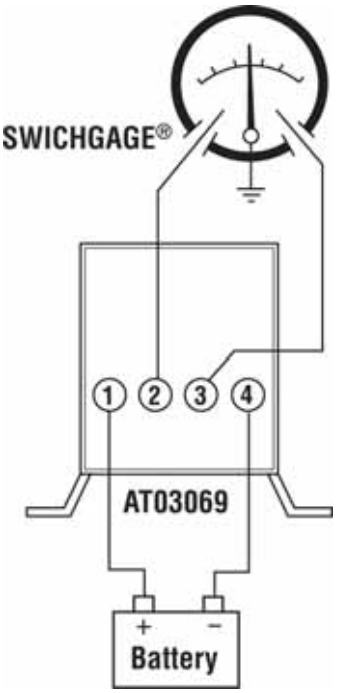
A Murphy SWICHGAGE®* constantly monitors pressure, level, temperature or load. Adjustable high and low contacts on SWICHGAGE® are set slightly above and below desired operating point. When demand changes, pointer touches appropriate high or low contact and signals speed change. AT03069 controller responds only so long as contact is made. The controller stops immediately when contacts separate. Slow, smooth action prevents “hunting” or “surging” on normal applications.



Dimensions



Typical Wiring



How to Order

AT03069

* Mercury tube or snap-action switches are not suitable for this type control. For more information, recommendations and quotations contact our engineering dept.