



# ANTI-SWEAT ENERGY MANAGER

Sensible Energy Management

Proven Results

**GLASS SENTRY**  
Model MCS-GS LP



Small accurate sensors can easily and discreetly be installed into retrofit applications.

**MULTIPLE CASE SERIES**

When the HR-6 Energy Initiative was passed and incorporated in January 2009, it required all cooler and door manufactures to use either more expensive energy efficient glass or to install anti-sweat heater controls into their units.

We redesigned the *Glass Sentry* into a potted low profile option that could be mounted in the mullion. Thousands of these units have been used and are now a standard component on a number of cooler systems. The MCS-GS LP utilizes a discreet dew point sensor and one smaller temperature sensor. It can still handle 22 amp loads making it popular with the convenience-store industry and the proven design is gaining strength as one of the best economical solutions for cooler OEMs.

MCS-GS LP is an electronic energy savings invention designed to smartly control the operation of glass door heaters for coolers/freezers. Coolers and freezers with glass doors have heaters built in the door frames. The purpose is to prevent fogging and condensation on the doors and frames. By design these heaters run 24/7/365, but only need to run ten to fifty percent of the time. Intelligence programmed within the microcontroller of the MCS-GS LP monitors ambient air temperature, humidity, frame temperature and calculates the dew point. It only runs the heaters enough to keep the frame temperature above the dew point (where condensation occurs). By maintaining a temperature just a few degrees above the coldest spot on the door frames, run time on the heaters can be reduced by up to ninety percent.

### Distinct Advantages of MCS-GS LP:

- | Small and compact - fits handily in the mullion
- | MCS-GS LP can handle heater loads as high as 22 amps, allowing one unit to handle multiple doors
- | Only runs the frame heaters enough to keep the temperature of the glass and frame above the dew point
- | Built in intelligence automatically adjusts heater run time as conditions in the store change
- | Simple wiring makes factory installation a snap



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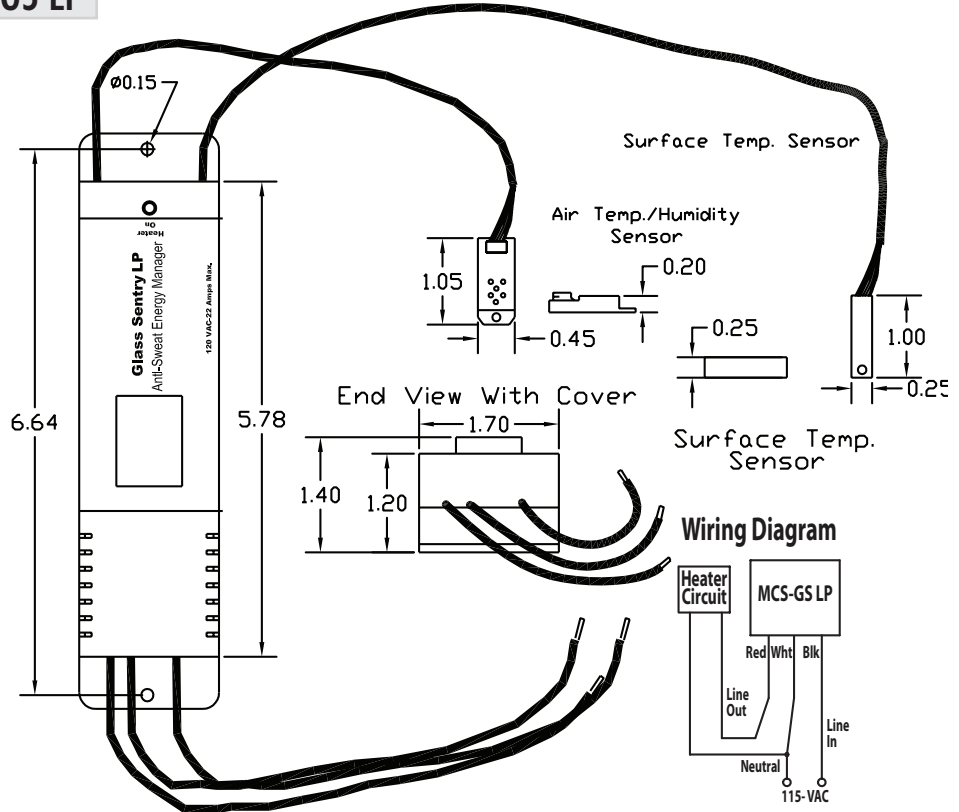
Sensible Energy Management

*Proven Results*

## GLASS SENTRY | MODEL MCS-GS LP

### MCS-GS LP Specifications:

Input Voltage:	90-132 VAC
Frequency:	50-60 Hz
Heater Cycle Time:	5 minutes
Max. Load:	22 Amps
Power Consumption:	10 Watts Max.
Wire Color Code:	Black - Line In White - Neutral Red - Heaters
Max. Ambient Temperature:	70° C
UL:	Recognized
Warranty:	Limited 2 Year Replacement



## GLASS SENTRY | MULTIPLE CASE SERIES GS LP

**STEP 1 - INSTALL GLASS SENTRY**  
MCS-GS LP is designed to be mounted inside the mullion of a glass door system.

**STEP 2 - INSTALL SENSORS**  
Frame sensor is mounted on the coldest spot of the door frame system while the dew point sensor is mounted above or on the ledge of the frame.

**STEP 3 - SAVE ENERGY AND MONEY**  
MCS-GS LP can save up to 90% of the energy normally used for anti-sweat heating.

