



ANTI-SWEAT ENERGY MANAGER

Proven Results

Sensible Energy Management

GLASS SENTRY
Model GSM-C

Installed
to
save
Energy

MERCHANDISER SERIES



Small accurate
sensors can easily
and discreetly
be installed.



The "Glass Sentry Merchandiser Series" is a diverse series of 4 controllers designed to handle 3A loads typically found in merchandiser applications.

The GSM-C is a closed loop single output unit that is designed to handle both the door heaters and the frame heaters together. For engineers needing to save the maximum amount of energy, this is the unit for you. The closed loop design takes a direct approach to controlling heater run time. A combination sensor monitors both the air temperature and humidity and those readings are used to mathematically calculate the dew point of the outside air in contact with the door. A separate temperature sensor is mounted at the coldest part of the door frame to monitor the surface temperature of the frame.

The microprocessor in the controller then compares the dew point with the surface temperature and allows the heaters to run only when the frame temperature drops below the dew point. Whenever the surface temperature reaches the dew point, the heaters are allowed to run and the heaters remain on for a predetermined time or until the surface temperature rises 2 degrees above the dew point thereby assuring that the surface temperature of the glass is properly elevated so condensation is impossible.

The unit is small, compact and easily fits into the merchandiser. It can thereby be installed at the factory or it can be retrofitted in the field.

The *Glass Sentry* line is the "Go To" line for anti-sweat heater controls. We have been the leader in this market for over 15 years. All of our products are UL recognized and we offer private labeling options. We regularly sign nondisclosure agreements with OEMs and work with them to provide proprietary controllers for their particular corporation.

Distinct Advantages of GSM-C:

- | Only runs the frame heaters enough to keep the temperature of the glass above the dew point
- | Built in intelligence of a closed loop system automatically adjusts heater run time as conditions in the store change
- | *Glass Sentry* can control heater loads as high as 3 amps, allowing one unit to handle multiple doors
- | Small highly accurate sensors are easy to install and very discreet

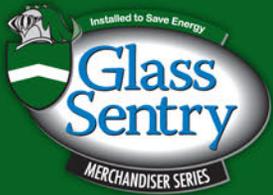


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OEM
solutions

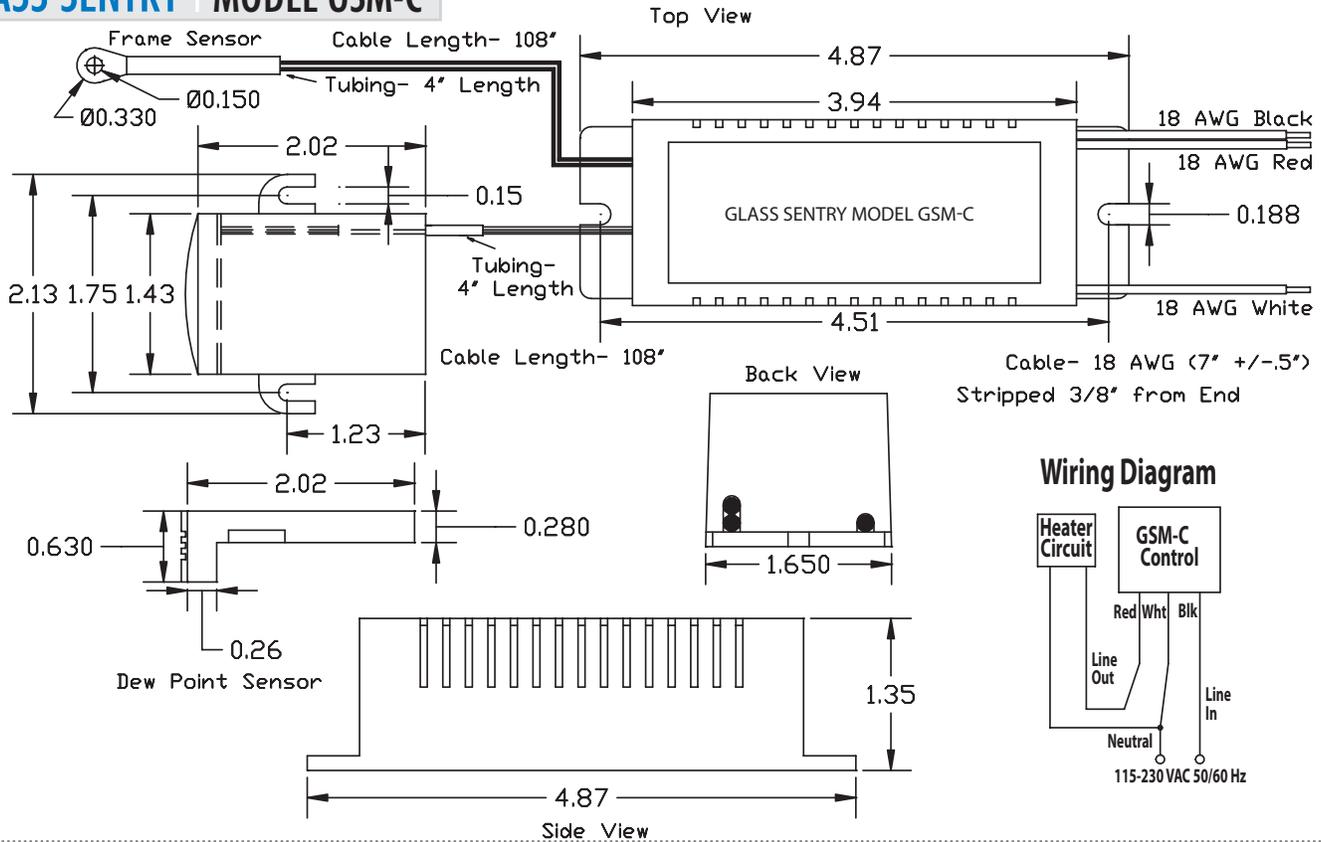


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GLASS SENTRY MODEL GSM-C



GSM-C Specifications:

Input Voltage:	115-230 VAC
Frequency:	50-60 Hz
Min. Heater On Time:	3 minutes
Sensitivity Adj. Range:	0-10° C
Heater On Level:	Dew Point
Heater Off Level:	Dew Point + 2° C
Max. Load:	3 Amps
Max. Ambient Temperature:	70° C
UL:	Recognized

GLASS SENTRY | MERCHANDISER SERIES GSM-C

STEP 1 - INSTALL GLASS SENTRY
 The Model GSM-C is compact enough to be installed inside the machine compartment of any merchandiser.

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

STEP 3 - SAVE ENERGY AND MONEY
 The Model GSM-C can save up to 80% of the energy normally used for anti-sweat heating.

