

ANTI-SWEAT ENERGY MANAGER

Sensible Energy Management

Proven Results

GLASS SENTRY
Model MCS-GS MODBUS



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



MULTIPLE CASE SERIES

HOW IT WORKS. 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 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.

Designed for communication capabilities, the MCS-GS Modbus is the ultimate solution for supermarkets and large C-store chains interested in integrating refrigeration system controls into a building automation platform. Parameters such as relative humidity, store temperature, dew point, frame temperatures, percent heater run time, hour-watts saved, as well as alarm conditions can be viewed on a unit by unit basis. Perfect for the store manager to evaluate site efficiencies and analyze systems from the convenience of his desk.

The Modbus feature is built into the MCS-GS base unit that controls the operation of glass door heaters for walk-in coolers and reach-in freezers with glass doors. Intelligence programmed within the microcontroller of MCS-GS efficiently runs the heater circuit enough to keep condensation from forming on the door frame and glass without wasting additional energy. By maintaining a temperature on the coldest spot on the door frame just a few degrees above the dew point, run time on the heater circuit can be reduced significantly.

Distinct Advantages of MCS-GS Modbus:

- Built in intelligence automatically adjust heater run times as conditions in the store change
- Only runs the frame heaters enough to keep the temperature of the glass above the dew point
- Built in intelligence automatically adjust heater run time as conditions in store change
- Pig-tail leads and flexible conduit provided with the MCS-GS Modbus allow for easy retrofit installation
- MCS-GS Modbus can control heater loads as high as 30 amps, allowing one unit to handle multiple doors
- Small highly accurate sensors can easily and discreetly be installed into retrofit applications

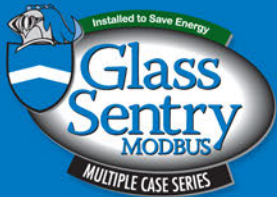


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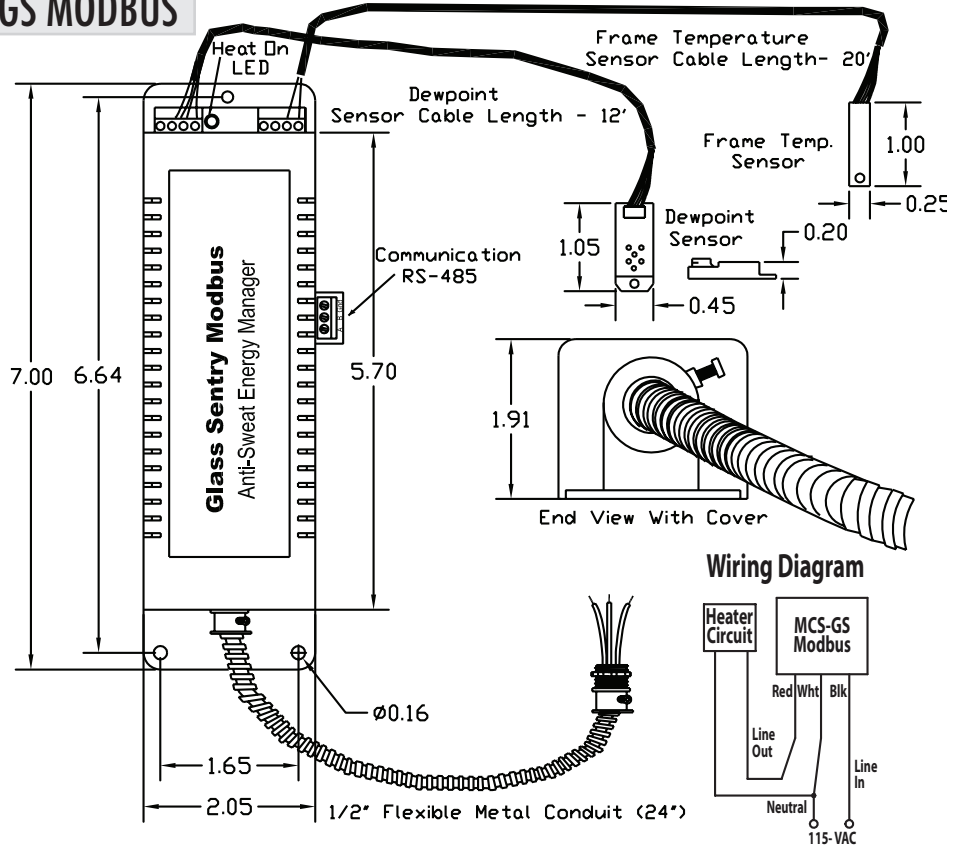
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GLASS SENTRY | MODEL MCS-GS MODBUS

MCS-GS Modbus Specifications:

Input Voltage:	90-132 VAC
Frequency:	50-60 Hz
Min. Heater On Time:	5 minutes
Sensitivity Adj. Range:	0-10° C
Heater On Level:	Dew Point + Adj. Offset
Heater Off Level:	Dew Point + 2° C Adj. Offset
Max. Load:	30 Amps
Communication:	Modbus RTU (RS-485)
Power Consumption:	10 Watts Max.
Wire Color Code:	Black - Line In White - Neutral Red - Heaters
Max. Ambient Temperature:	40° C
UL:	Listed
Warranty:	Limited 2 Year Replacement



GLASS SENTRY | MULTIPLE CASE SERIES GS MODBUS

STEP 1 - INSTALL GLASS SENTRY
MCS-GS Modbus can be mounted on top of or inside walk-in systems or inside the wire way of reach-in systems.

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 - CONNECT MCS-GS MODBUS
Modbus RS-485 wires to your building automation system.

STEP 4 - SAVE ENERGY AND MONEY
MCS-GS Modbus can save up to 90% of the energy normally used for anti-sweat heating.

