

## **Specification Sheet**

### **VB247 Control System**



#### **Introduction:**

The VB247 control system allows remote access to individual, or multiple, enclosures via a web interface and either monitor or change parameters of cooling, heating, humidity, projector control and 7-day timer for projector and auxiliary 4way power block.

It features a projector RS232 switching system that will allow projector to switch off with its own built in cool down timer to adhere to projector manufactures warranties. Embedded RS232 codes from leading projector manufacturers – Digital Projection, Panasonic, Epson.

#### **Projector Enclosure:**

Supply voltage 110-230V ac, 50-60Hz

Supply current 5A

External connectivity 10/100MB ethernet

Heater 50W or 100w

3 x Temperature sensors – Internal, external and projector exhaust

3 x Individually controlled high airflow fans or with the VIZBOX “AirFusion™” air conditioning system

Humidity control

#### **Control System:**

Supply voltage 24V dc regulated

Supply current 4A max.

Fan rating 24V dc, 1A max. (3 off)

Heater relay rating 240V ac 3A max.

Projector relay rating 240V ac 16A (or greater via solid State relay)

Aux relay rating 240V ac 12A

#### **Environmental:**

Operational -20C to +80C (internal)

Storage -40C to +85C, 95% RH non-condensing

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#### **Functionality:**

The external temperature, internal temperature and humidity sensors are monitored by a bespoke control system. According to the sensor readings, the controller manages the integrated heating and ventilation system to ensure the environment inside the projector enclosure is maintained at a suitable temperature and humidity to counteract the external conditions. The cooling fans are switched individually to suit the exhaust temperature.

There is an integrated LCD HMI display with pushbuttons and backlight for system configuration and to clearly show the control system status and sensor readings.

The system status can be monitored remotely via a standard web browser on a networked computer, i.e. no program, app or exe to install. With the addition of a wireless access point the system status can be monitored via web browser on a tablet or smart phone device.

The web interface allows you to quickly see how the enclosure is performing and, through the passworded engineers page, allows you to change the parameters such as projector on/off times, cooling/heating settings, humidity, filter hour times and allows you to see any alarms that may be occurring.

The projector and auxiliary device operation are controlled by configurable 7-day time schedules or always on/off. The controller has an in-built real time clock with DST and network time sync.

VB247 allows you to power cycle the projector safely via the web interface without having to send an engineer to site.

There is an option to set the integrated intruder alarm system which can output to a siren/strobe and set an alarm state on the web interface.

#### **Projector Interface:**

Requires RS232 serial port for control interface. Supports compatible models manufactured by Panasonic, Digital Projection, Epson, NEC. Other manufacturers and product variants can be accommodated on request.