

RICKARD ELECTRONIC VAV DIFFUSER SERIES

Control Options

The Rickard wall thermostat can control a single diffuser, or up to 15 diffusers. The standard thermostat monitors temperature and controls the set point, while the version with occupancy sensing can also detect a vacant zone and automatically switch off that zone. Generally for larger more complex applications, electronic diffusers connect to the most common BMS protocols on the market; LonWorks and BACnet/IP and MS/TP or the Rickard standalone software. Thousands of Diffusers can be connected, controlled, monitored and fine-tuned via the BMS using the Rickard Master Communications Module.

Rickard software is easy to install, commission and re-program

Rickard's easy to use software is perfect for all applications where a BMS system is not being utilised within the building. This standalone software has been developed for commissioning and setting diffuser parameters, monitoring the network, logging diffuser activity and converting a slave diffuser to a master, all from below the ceiling with a computer. Changes to office layouts are easy as each diffuser can be easily re-positioned and re-programmed according to its new environment.

The Rickard software can show you how each diffuser is connected within the zone and which diffusers make up each zone. By selecting the diffuser parameters you wish to log, data can also be viewed in an easy to understand chart and exported for storage and analysis if required. This ensures that any corrections or adjustment to the system can be made accurately and with minimum disturbance to the building occupants.



Occupancy Sensor

Occupancy sensing is a unique option that can lead to the further reduction of a building's energy consumption. It is available within the Square Electronic VAV Ceiling diffuser itself and a specially designed wall thermostat. This technology closes the diffuser if it detects an unoccupied room and opens it again when it detects an occupant present.

If the Electronic diffuser system is connected to the building's BMS, its occupancy sensing capability can also be used to turn the lights on and off depending on the occupancy of the space.

Airflow Sensor

Airflow monitoring enables commissioning of the electronic diffuser system to occur easier and faster. This is because Airflow and total pressure measurements can be viewed and monitored through Rickard's software or the BMS. It can be fitted to each diffuser for accurate Airflow calculations, or to one diffuser per zone for an approximate indication.

Electronic Control Range

Models	Description
RICK-OBCKIT	On-Board Controller
RICK-WSKIT	Thermostat (No occupancy sensor)
RICK-OCWSKIT	Thermostat (With occupancy sensor)
RICK-MLMPS	Power supply unit
RICK-CU-USB	USB connection module



Master Communication Module

Models	Description
RICK-CU-RICK	Base model
RICK-CU-BNIP	BacNet/ IP BMS Interface
RICK-CU-BNTP	BacNet ms/ tp BMS Interface
RICK-CU-LW	LonWorks BMS Interface

Control Cables

Models	Description
RICK-CA-SLA8	8M Slave Cable
RICK-CA-EXT2	2M Extension Cable
RICK-CA-EXT8	8M Extension Cable
RICK-CA-CU20	PSU to MCU Comms Cable 20m Long
RICK-CA-CU40	PSU to MCU Comms Cable 40m Long
RICK-CA-CU80	PSU to MCU Comms Cable 80m Long

Relief Ring

Models	Neck size
RICK-Relief200	200mm
RICK-Relief250	250mm
RICK-Relief300	300mm
RICK-Relief350	350mm

Airflow Sensors

Models	Neck size
RICK-sens-af150	150mm
RICK-sens-af200	200mm
RICK-sens-af250	250mm
RICK-sens-af300	300mm
RICK-sens-af350	350mm

Occupancy Sensor Cap

Model	Details
RICK-CU-OCC	Occupancy Sensor Module - Retrofit

Rickard occupancy sensor cap for retrofitting ceiling diffuser.



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