

STREET ADDRESS:
 2 RIGEL ROAD, LANSDOWNE
 CAPE TOWN
 7808

POSTAL ADDRESS:
 P O BOX 103
 OTTERY
 7808

PHONE: 27 (21) 704 1533
 FAX: 27 (21) 704 1004
 E-MAIL: Info@rickardair.com

CO. Reg No: 1979/005026/07 VAT Reg No: 4630102087

RICKARD Bluetooth Series Sensing Options

This is a generic specification. Please contact your Rickard representative for any specific requirements

GENERAL

1) Product covered

Sensing Options for Rickard Diffusers fitted with Rickard Bluetooth Controls.

2) Related Standards

- a. The latest related standards apply.
- b. ASHRAE Standard 55 – Thermal Environmental Conditions for Human Occupancy

3) Support

Rickard believes part of its success lies in the way we support our customers.

We understand that our diffusers forms part of a bigger system that needs to work seamlessly with ours.

If you have a product specific query, or general system query, please do not hesitate to contact our experienced Sales or Engineering staff.

4) Quality

- a. Rickard specialize in the manufacturing of VAV diffusers and controls with 47+ years' experience.
- b. 100% testing of product produced by Rickard before shipping
- c. Rickard warranty covers electronic controls to be free from defects in material or workmanship for a period of 24 months from date of shipment.
- d. Full terms and conditions available on request

RICKARD PRODUCT SPECIFICATION

1) General overview

- a. Applies to Rickard Diffusers fitted with Rickard Bluetooth controls
- b. On-board sensing options.
- c. Wired Sensing Options
 - i. Remote sensing only options
 - ii. Wall Thermostat Options
- d. Wireless Sensing Options
 - i. Remote sensing only options
 - ii. Wall Thermostat options

2) On-board sensing Configuration Options

- a. VCD, VRD, VSD, VSW, VRW diffuser options. (All neck sizes)
 - i. When fitted with Bluetooth controls
 - ii. Standard On-board sensing with occupancy sensing.
 - iii. Central Trim Plate Induction system remote from supply air path.
 - iv. Patented induction system introduces induced room air onto the sensor.
- b. VLN and VLA diffuser options. (All sizes)
 - i. Not available at present. Pending.

DIRECTORS

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B. Rickard

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C. Bosch

FINANCIAL
G. Paris

REGIONAL SALES
R. Smith

REGIONAL SALES
T. Khambule

MARKETING
M. Rickard

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N. Ebrahim

- c. WBD and VLB diffuser options
 - i. No on-board sensing available.

3) On-Board Selection overview

- a. Select when supply air is within 10 °C of room temperature to limit room stratification.
- b. Individual Temperature adjustment and display available on Android App.
- c. App offsets are available to reduce stratification error
- d. Setpoint adjustment:
 - i. Using Rickard Bluetooth Android app.
 - ii. BMS when connected to Rickard Bluetooth hub. (Pending)

4) Wired Sensor configuration Options

- a. Wired remote sensor
 - i. Not available for the Bluetooth diffuser.
- b. Wired Wall Thermostat
 - i. Not available for the Bluetooth diffuser. (Pending)

5) Wired Sensor Selection Overview

- a. Not Available for the Bluetooth diffuser.

6) Wireless Sensor configuration Options

- a. Wireless remote sensor
 - i. Bluetooth wireless sensor not available. (Pending)
- b. Wireless Wall Thermostat
 - i. Bluetooth wireless Wall Thermostat not available. (Pending)

7) Wireless Sensor Selection Overview

- a. Select remote sensor when on-board sensing is not advisable due to reduced induction or increased stratification problems.
- b. The sensor can be located where the occupied space temperature is best represented.
- c. Setpoint adjustment:
 - i. Use Bluetooth Android App.
 - ii. BMS when connected to Rickard Bluetooth hub.
- d. Select Wall Thermostat when “a” to “c” above applies, but in addition Setpoint Adjustment capability on the Wall and Temperature/Setpoint display is required.
- e. Locate the Wall thermostat where the occupied space temperature is best represented, and temperature adjustment location is convenient.

8) Rickard Bluetooth Diffuser configuration options:

- a. Available as an option on Rickard VCD, VRD, VSD, VSW, VRW range of VAV diffusers.
- b. Future availability on Rickard VLN, VLA, WBD range of diffusers.
- c. Only available with On-board sensing.
- d. Android Application available using Bluetooth connectivity.
- e. Available as standalone devices.
- f. Future availability with networking and BMS capabilities.

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