

RUKS ENGINEERING LTD

TECHNICAL SPECIFICATIONS

AUTO VOC SENSOR CONTROLLER CZ6-SC PRODUCT SPECIFICATIONS

1. Regulation of IAQ device or Fresh Air Damper shall be automatically modulated and controlled by Auto VOC Sensor and Variable Load Controller.
2. Sensor and Controller shall be rated for continuous operation, in air 0 to 100% RH non condensing.
3. Wiring between Sensor and Controller Modules, and for powering the Sensor element shall be factory provided within the enclosure.

SENSOR MODULE

4. Sensor element shall be HMOS, rated for continuous online, 24/7 uninterrupted operation, without requiring recalibration.
5. The VOC Sensor shall be capable of detecting broad range of commonly occurring VOC in indoor applications.
6. The Sensor shall provide 4 distinct signals with LED, one each for Clean, Low, Medium and High levels of concentration of the polluting VOC. It shall be possible to field adjust sensitivity of the sensor.
7. The sensor shall provide 0 to 10 VDC analog signal for interface to BMS/BAS.
8. In the event of power failure, or if the system is turned off, the Sensor shall retain the pre set sensitivity.

LOAD CONTROLLER MODULE

9. Controller Module shall be solid state, mounted alongside the Sensor Module, in the same common enclosure. It shall be fully factory assembled and wired.
10. Input voltage to controller shall be 120 Volts, 1 Ph, 60 Hz (or 220 to 240 Volts, 1 Ph, 50 Hz), load rating of 15 Amps on 120 Volts, or 7.5 Amps on 220 Volts (choose one).
11. Controller shall be provided with UL listed terminal block, switch to change between Automatic and Manual Operation.
12. Controller element shall have Current Limiter to prevent current spikes.
13. Controller element shall be housed in Epoxy Compound Housing and epoxy shall be flame rated to UL 94 VO.
14. As this is a switching device, the outer enclosure shall be metal to prevent harmonic spikes.

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15. **The Sensor Controller shall be Listed to UL 916 Standard for Safety for Energy Management Equipment.**
16. **The Controller shall be CE Certified.**
17. The Equipment shall be of North American Manufacture, with parts and components from USA and Canada.

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