

Thermal Imaging Occupancy Counter for Single Width Interior Doors

OVERVIEW



- Thermal Imaging Technology
- Bi-directional Counting
- Ideal for Single Entry Doors
- 5% or Better Typical Counting Accuracy
- RS-485 Network Connection
- Analog Output Connection
- Install Over Door Opening
- Door Jamb or Stand-off Mounting
- Operates on 24 VAC Power
- 3-year Warranty

The CENSus-C100 is a unique solution for reliable and cost effective occupancy counting. Ideal for Demand Control Ventilation (DCV) applications. Ideal for single entry interior doors or openings. Multiple counters can be installed on rooms with more than one entry.

Typical Applications

- ◆ Classrooms
- ◆ Lecture Halls
- ◆ Conference Rooms
- ◆ Waiting Rooms
- ◆ Libraries
- ◆ Retail Spaces
- ◆ Arenas or Exhibition Spaces with Channeled Entry Paths

Benefits

- ◆ Provide Only the Outdoor Air Required for the Actual Population
- ◆ Save Energy
- ◆ Reduce IAQ Liability
- ◆ Satisfy ASHRAE 62.1 DCV Requirements on Single and Multi-zone Spaces
- ◆ Satisfy DCV Requirements of ASHRAE 90.1

Product Highlights

- ◆ Easy to Install
- ◆ Real-time Counting
- ◆ Advanced Algorithm Reduces False Counts
- ◆ No Sensor/Receptor Alignment Required
- ◆ Compatible with BRG-N100 when no B.A.S. Network is Available



SPECIFICATIONS: CENSUS-C100

General

Counting Technology: Dual sensor differential thermal imaging

Accuracy: Typically better than $\pm 5\%$ of actual population or 3 people, whichever is greater, on openings less than or equal to 42 in. [1.07m]

Listings and Compliance

FCC: This device complies with Part 15 of the FCC rules

RoHS: This device is RoHS2 compliant

Environmental Limits

Temperature (recommended limits): 65 to 85 °F [18.3 to 29.4 °C]

Humidity: 5 to 95%

Sensor Assembly

Sensors: Two thermopile sensors

Mounting Options:

Standard: Install on overhead door jamb

Optional: Install above door opening with optional stand-off bracket

Maximum Recommended Mounting Height: 96 in. [2.43 m]

Integral Transmitter

Power Requirement: 24 VAC (22.8 to 26.4 under load) @1.5V-A

B.A.S. Connectivity Options

CENSUS-C100: One 0-10 VDC, scalable and protected analog output signal (AO1=occupancy count) and one field selectable (BACnet MS/TP or Modbus RTU) and non-isolated RS-485 network connection (provide individual 24 VAC transformers for each CENSUS-C100 device for applications requiring isolated RS-485)

Enclosure

Enclosure: White powder coated formed aluminum