Delmatic's innovative macro climate sensor extends digital monitoring capabilities beyond lighting presence and daylight control to include the environmental metrics temperature and humidity measurement, air quality detection as well as BLE Bluetooth® capacity, allowing a wealth of data sharing and true SMART Building Integration.

The software-defined smart sensor measures presence and absence, ambient light, temperature, air quality, total volatile organic compounds, and equivalent CO₂. The sensor is available in a wired DALI-2 format and allows for wireless BLE Bluetooth[®] integration.

The multi-discipline sensor forms part of Delmatic's network of sensors, controllers and software, with optional green features including hours-run monitoring, virtual energy Monitoring and energy use analysis dashboards.

HII C



features



Passive infra-red PIR sensor. Software-configurable presence/absence detection mode and software-adjustable time-out.



Light level sensor for daylight linking/harvesting. Software-configurable default illumination levels, photocell thresholds and other parameters.



Active infra-red receiver for user adjustment and task tuning of lighting levels and scenes, temperature, blinds/shades and other services.

High resolution temperature sensor for real-time monitoring of space temperature for BACnet / MQTT sharing with iBMS/BOS.



High resolution humidity sensor for real-time monitoring of space humidity for BACnet / MQTT sharing with iBMS/BOS.



BLE Bluetooth[®] beacon **enabled sensor** for real-time asset tracking, wayfinding and receiver for self-powered switches.



Air quality index sensor for real-time monitoring of air quality for BACnet / MQTT sharing with iBMS/BOS



Total volatile organic compounds sensor for real-time monitoring of TVOC's for BACnet / MQTT sharing with iBMS/BOS



Equivalent CO₂ sensor for real-time monitoring of eCO2 for BACnet / MQTT sharing with iBMS/



DALI-2 tested and independently qualified by DiiA DALI Alliance.



delmatic

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product ref: 164D2-MCS

delmatic



Delmatic's data-rich DALI-2 macro climate sensors form the core of a smart building. The smart sensors constantly monitor, continually assess, and imperceptibly adjust and optimise lighting and connected services, while seamlessly sharing data across the IT and IOT network.

Real-time granular intelligence is disseminated to other building services via open technologies including BACnet, MQTT and Modbus with seamless connectivity to EnOcean self-powered switches via BLE. This is then combined with resource planning to optimise employee wellbeing, facilities management, as well as real estate and business strategies.

technical details

temperature sensorrange: 5°C to 50°C. ±0.5 °C accuracyhumidity sensorrange: 20% to 80% RH. ±3.0 %RH acheight (above ceiling)30 mm plus cable		
Iux sensorphoto-diode. accuracy: +/-5% acrosstemperature sensorrange: 5°C to 50°C. ±0.5 °C accuracyhumidity sensorrange: 20% to 80% RH. ±3.0 % RH accuracyheight (above ceiling)30 mm plus cable	occupancy sensor	passive infra-red. quad element
temperature sensorrange: 5°C to 50°C. ±0.5 °C accuracyhumidity sensorrange: 20% to 80% RH. ±3.0 %RH acheight (above ceiling)30 mm plus cable	detection diameter	5m at 2.5m mounting height
humidity sensor range: 20% to 80% RH. ±3.0 %RH ac height (above ceiling) 30 mm plus cable	lux sensor	photo-diode. accuracy: +/-5% across range
height (above ceiling) 30 mm plus cable	temperature sensor	range: 5°C to 50°C. ±0.5 °C accuracy
	humidity sensor	range: 20% to 80% RH. ±3.0 %RH accuracy
denth (below ceiling) 1 mm	height (above ceiling)	30 mm plus cable
	depth (below ceiling)	1 mm
body diameter 39 mm	body diameter	39 mm
bezel diameter: 49 mm	bezel diameter:	49 mm
	cut-out diameter:	40 mm

design and mounting

The compact, low-profile design of the sensor incorporates a slim bezel and flat lens which blends discretely into the ceiling.

A compact adaptor is also available to suit surface- mount besa-box installations.

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