Product Specification

SQ-Panel

Real Estate Air Quality Display with Sensors

The Carenuity SQ-Panel is a smart home device, designed to enhance your home environment by displaying the key parameters of the ambient air and human presence.

We reserve the right to make technical changes in the course of further product development.

Basic Information

Product series	Indoor Air Quality Sensor
Type	Wall panel
Voltage	100-240 AC 50/60Hz
Max power	5 W
MCU	EFR32 Silicon Labs
Certification	CE/ROHS/WEEE

Appearance

Color depth	16.7 M
Dimension	70.4x70.4x46.4 mm
TFT Screen size	2.6”
TFT Screen resolution	240x240px
Weight	105g
Casing materials	PCLEXAN121R
Casing color options	Back / White / Black-and-White

Features

Sensors

Temperature Sensor	-40…85 °C
Humidity Sensor	0…100 %
Pressure Sensor	300...1100 mbar / hPa
Air Quality Index	Proprietary Algorithm
equivalent CO2-Level Sensor (eCO2)	400 ppm up to 29206 ppm
Total Volatile Organic Compounds (TVOC)	0 ppb up to 32768 ppb
Radar Presence Detector	AI-assisted

We reserve the right to make technical changes in the course of further product development.

Border Router	Carenuity Border Router as separate device
Mobile App operating system	Android & iOS
Cloud connection and data logging	Yes
Data analysis and presentation	Yes, over Mobile App
OTA firmware update	Yes
Setting alarm thresholds and Alarms	Yes, over Mobile App or Display
Setting backlight intensity [1 – 100%]	Yes, over Mobile App or Display
Setting display timeout [0 – 30s]	Yes, over Mobile App or Display
Dynamic temperature calibration against backlight intensity	Yes

Wireless standard

PHY / MAC / 6LOWPAN	IEEE 802.15.4
Protocol	Openthread Sub-GHz at 868.3 MHz
Application Protocols	Secure CoAP, MQTT
Antenna	PCB antenna
Encryption type	DTLS / AES 128

Working Environment

Applicable place	Indoor
Working temperature	-40 ~ 80 °C
Working humidity	Up to 90 % RH

We reserve the right to make technical changes in the course of further product development.

Installation

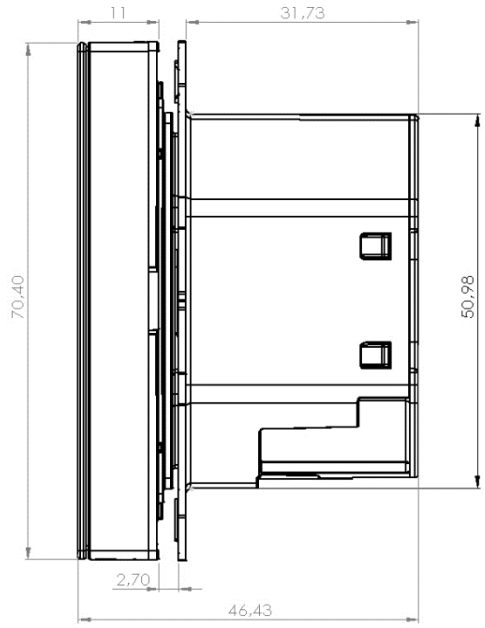
Installation method	Flush mounting box
Installation type	Screws installation
Wiring way	N and L
Wire diameter	0.75 – 2.5 mm2

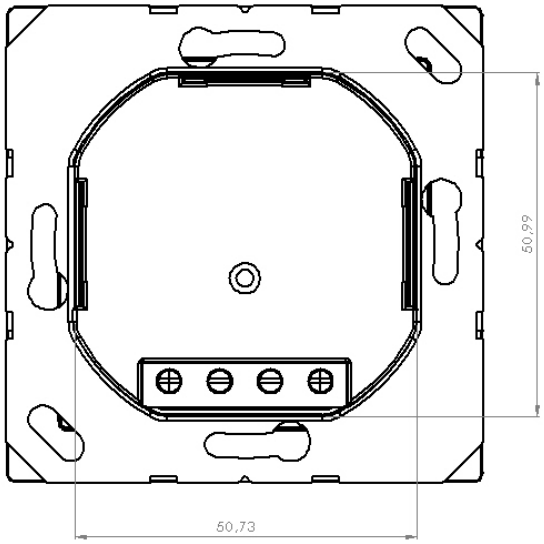
Norm references:

For more information please contact us.

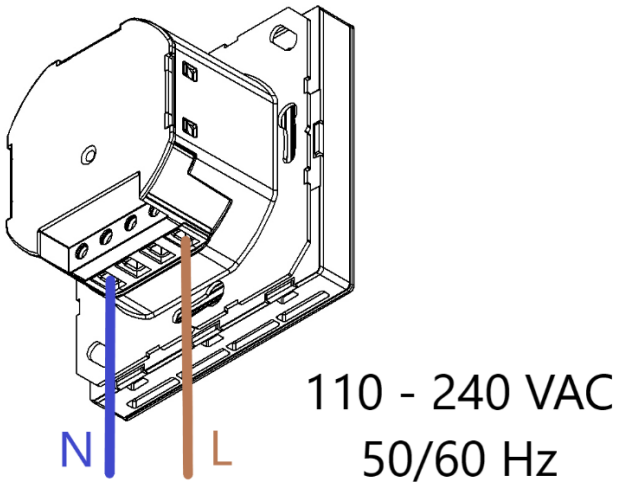
We reserve the right to make technical changes in the course of further product development.

Drawings





We reserve the right to make technical changes in the course of further product development.



We reserve the right to make technical changes in the course of further product development.