

trackgent IoT anchor

An anchor enhanced with an additional functionality with reference to basic one - equipped with several sensors providing environmental factors from the monitored area.

General features

Location technology

Ultra Wideband UWB,
6.49 GHz Center Frequency Nominal
(Channel 5 - 500 MHz BW); IEEE 802.15.4z-2020

Power supply

+ 5 V/120 mA, "terminal block"
connector inside the anchor

Dimensions

76 x 76 x 30 mm

Weight

66 g

Power signaling

LED

Action signaling

LED

Compliance

CE

Environmental features

Operating temperature

0-50 C

Storage temperature

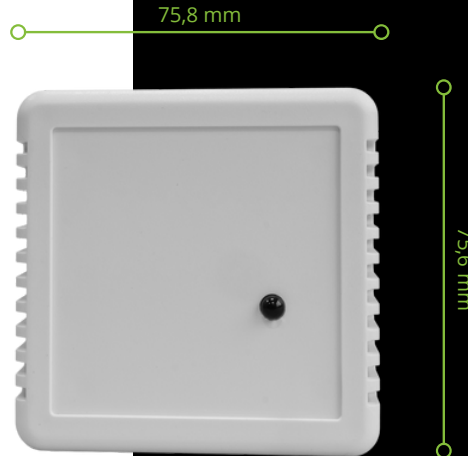
-25-70 C

Operating humidity

20 ~ 95% RH (non-condensing)

Storage Humidity

0 ~ 95% RH (non-condensing)



Temperature

-40 - 125 C, accuracy typical. 0,2 C, max 0,4 C

Relative humidity

10 - 100%, accuracy typical. 1,8%, max. 3,5%

Air pressure

30 - 110 kPa, accuracy \pm 80 Pa

Lighting

0.01 - 64,000 lux, in 6 ranges

Air quality

based on VOC concentration: 0 - 500 AQI

Noise intensities

sensitivity 30 - 130 dB
frequency range 100 Hz - 10 kHz

Solution

Trackgent RTLS solution is based on a 3-component hardware set composed of smart tags, anchors and gateways. It allows positioning of objects with high accuracy, up to 20 cm, in confined spaces. System uses Ultra-Wideband (UWB) radio technology. It is independent from other location and navigation systems e.g. GPS.

Anchor

Trackgent anchors perform as reference devices, located within a monitored area and serve as reference points to locate tags. To provide the positioning functionality of tags, a minimum of 3 (recommended 4) anchors are required per site area. Anchor cover is made of mechanically and chemically resistant ABS plastic with vents to provide airflow for optimal environmental sensor performance.