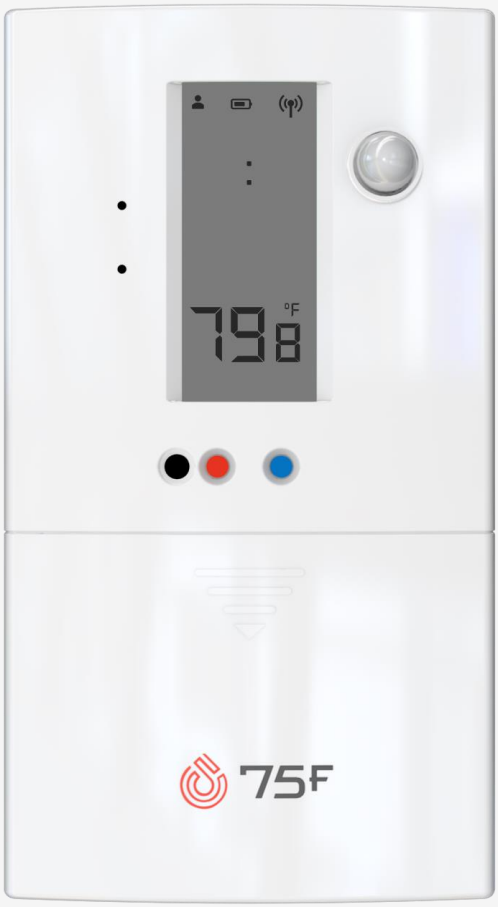
SPEC SHEET

75F® Occupancy and Temperature Node

A high-precision sensor with building schedule override capabilities for dynamic occupancy



- Senses for temperature, humidity, and occupancy
- Battery powered for zero wiring

75F® OTN

75F's suite of sensor offerings gives building owners the power of IoT-connected devices for optimal efficiency and comfort in spaces where it matters most. Measure to manage with the 75F OTN, a high-precision Occupancy, temperature and humidity Node that communicates with the 75F CCU to deliver data that influences temperature control.

OVERVIEW

The Occupancy & Temperature Node (OTN) enables fast and smart occupancy detection for out-of-the-box comfort and efficiency in dynamic buildings.

The device is powered by two AA batteries and communicates via a 900 MHz wireless mesh network, meaning it requires no wiring or gateway to connect to the Central Control Unit (CCU).

KEY FEATURES

- Accurate temperature readings (typical +/- 1°F or 0.2°C)
- Accurate humidity readings (typical +/- 2% R.H.)
- Occupancy sensor based on passive infra-red (PIR) with detection range of 3 meters and 110-degree conical angle
- Ability to override existing building schedules based on zone occupancy so zones are always at setpoint when occupied and in setback mode when empty

ADDITIONAL FEATURES

- Battery life expectancy of approximately 2 years
- Sleek design, low impact aesthetics
- Factory pre-calibrated
- Easily mounted

COMPATIBLE APPLICATIONS

- 75F Central Control Unit Temperature Influencing

75F® OTN

MECHANICAL

Dimensions	5.6” x 3.1” x 1.3” (142mm x 79mm x 32mm)
Mounting	Wall mount
Operating Temperature	32°F – 122°F (0C – 50°C)

SENSORS

Temperature	32°F – 122°F (0°C – 50°C); typical accuracy of +/- 1°F or 0.2°C
Humidity	Sensing range between 0 to 100%RH; Typical accuracy of +/- 2% RH
Occupancy	3m with 110-degree conical angle.

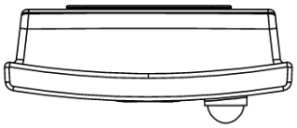
ELECTRICAL

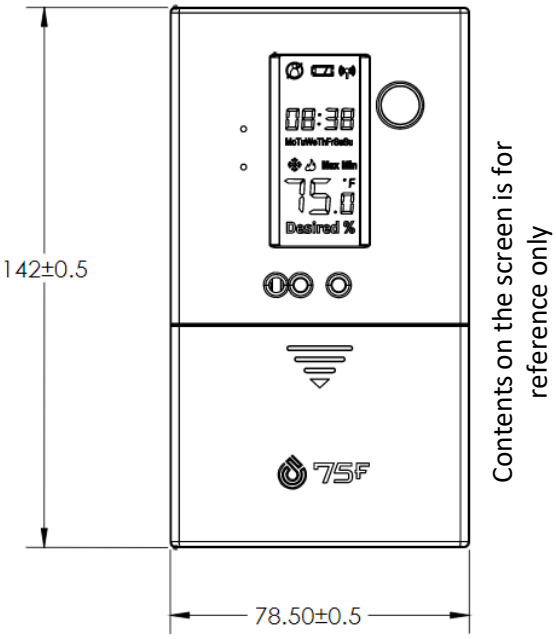
Power	2 x AA Battery (3VDC)

COMMUNICATIONS

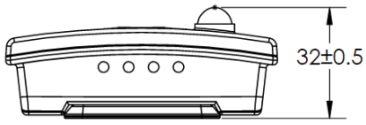
Mesh	900 MHz wireless mesh network, IEEE 802.15.4-compliant; used for device communication on mesh network. Note: OTN does not re-transmit communication

TOP VIEW





FRONT VIEW



BOTTOM VIEW