

FEATURES

- USB (or 5V adapter) Powered
- Internal Ambient Temperature & Humidity
- 3-Wire Pt100 RTD Probe (-200C to +200C)
- Two 4-State Magnetic Door Sensors
- Four 4-20 mA Analog Inputs
- ZigBee Pro



DESCRIPTION

The IH-303 sensor hub monitors ambient temperature and humidity along with external door sensor and freezer temperature probes. It works with IntelliSockets™ to form a secure wireless mesh network for control and reporting of data. Each network is anchored by an IntelliGateway™ base station providing connectivity to our WattIQ Cloud data collection and analysis service.

PERFORMANCE

Parameter	Symbol	Min	Typ	Max	Units
Input Current (5V)			45		mA
Resolution (Temperature)				0.1	C
Resolution (Humidity)				0.1	%
3-Wire Pt100 Range		-200		+200	C
Door Sensor Magnet Range			25		mm
Reporting Interval		4	15	60	s
RF Range			30		m
RF Transmit Power:					
US and Canada			18		dBm
Europe			10		dBm
ZigBee Channels		11		26*	
ZigBee Hive		0x3000		0x3FFF	
Size		4.5 x 3.3 x 1.5			inches

* Channel 26 limited to 3dBm

COMPLIANCE

Agency	File
ZigBee Profile (Plover)	0x20
FCC	2AECNIH-303
IC	26911-IH303

ENVIRONMENTAL

Parameter	Symbol	Min	Typ	Max	Units
Operating Temperature	T_o	0	25	40	C
Storage Temperature	T_s	-40		100	C
Relative Humidity	RH	0		95	%

* For indoor use only.

PUSHBUTTON / LED

Action	Result
Press and hold 3+ seconds	Soft reset. Re-start socket. Similar to plugging in.
Press and hold 8+ seconds	Hard reset. All conditions are set to default. Normally this sets unit back to FACTORY channel and hive. However, if unit has been deployed on CUSTOMER channel and hive, a hard reset will then toggle between FACTORY and CUSTOMER settings. This is a useful feature to correct a unit that has been accidentally reset to FACTORY. It also provides a quick method to perform a manual self-heal. If on FACTORY, LED will be red, CUSTOMER green.

Color	Meaning
Black	Unit has no power.
Yellow	Boot-up sequence in effect. Typically ½ second duration.
Flashing Red or Green	Unit is attempting to join mesh network.
Red	Door is open.
Green	Door is closed.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate this equipment.

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED (CANADA)

This device complies with ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Pour satisfaire aux exigences d'exposition aux RF, cet appareil et son antenne doivent fonctionner à une distance de séparation d'au moins 20 cm de toutes les personnes.