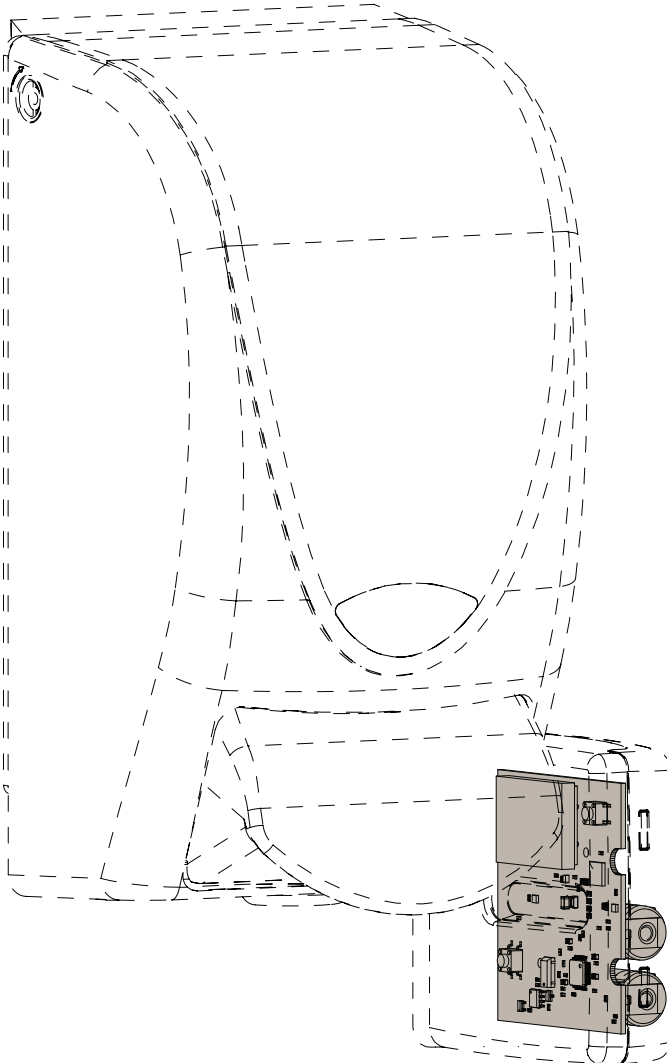




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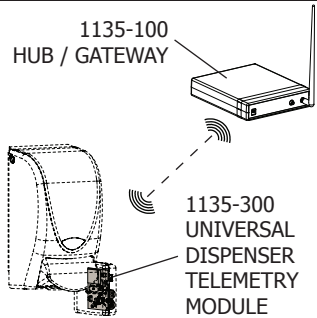


1135-300

UNIVERSAL DISPENSER TELEMETRY MODULE INSTALLATION & OPERATION GUIDE

INTRODUCTION

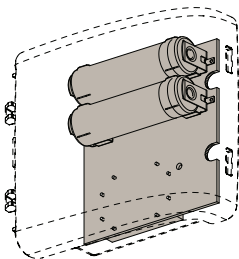
The Deb Universal Dispenser monitoring system is intended to provide nonintegrated remote monitoring of soap dispenser activations. The universal dispenser telemetry modules monitor the use of the dispenser via an IR (infrared) sensor and are intended for use as part of a larger system comprised of Hubs and Gateways (1135-100) along with a server. The system operates using the license free (ISM) bands.



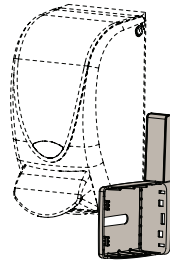
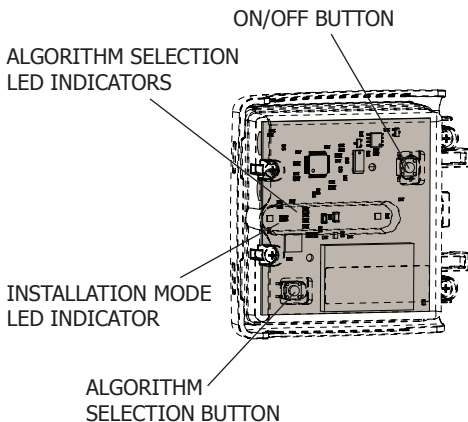
FEATURES

- 905 MHz Single Channel Radio
- 250kbps QPSK
- Integral PCB Antenna(0dBi gain)
- Duty Cycle 0.00025%
- IR sensor activation detection
- 3 Year Battery Life (100 activations per day)
- Crystal Controlled Real Time Clock

TELEMETRY MODULE INSTALLATION

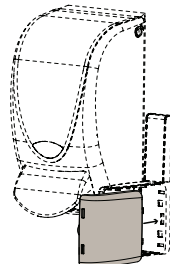
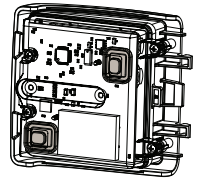


The module is supplied preinstalled into the sealed housing complete with batteries



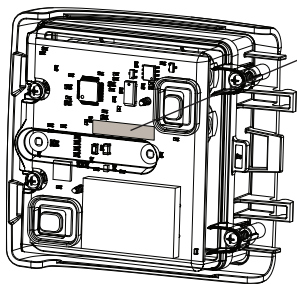
Step 1
Install the mounting bracket alongside the dispenser using the installation jigs to ensure correct alignment

Step 2
Press and hold ON button for >5secs to power up. Repeatedly press the Algorithm selection button until the LEDs indicate the desired program option



Step 3
Within 20secs load the universal dispenser telemetry module onto the mounting bracket

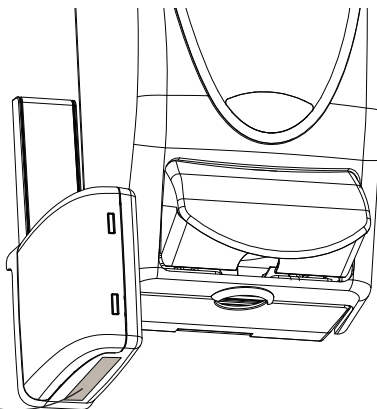
FCC & INDUSTRY CANADA LABELLING



FCC ID: YPHDEB1135-300
IC: 10648A-1135300

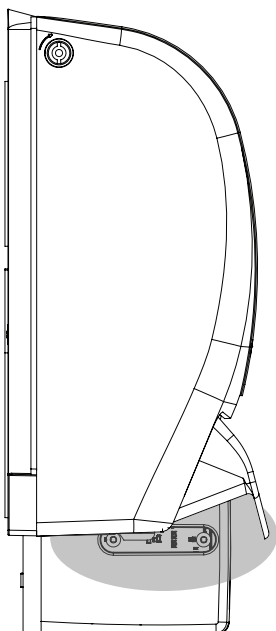
Prior to installation onto the mounting bracket the Telemetry modules FCC/IC approval label is visible through the clear lens of the housing

As this label is not visible when the telemetry module is assembled onto the mounting bracket, a second label is attached to the underside of the unit.



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 of the device.
IC: 10648A-1135300

INSTALLATION MODE

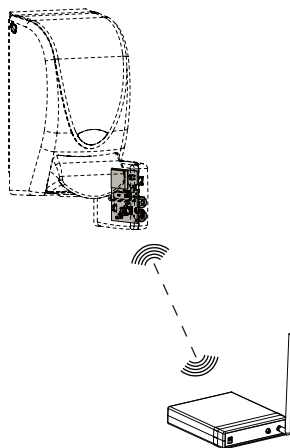


To aid installation a Light Emitting Diode (LED) is provided. To activate installation mode, enter the universal dispenser telemetry modules sensing field and remain in place for approximately 5 seconds. Provided a working Gateway/Hub is in radio range the installation mode LED will flash slowly 5 times.

STANDARD OPERATION

During normal operation the universal dispenser telemetry module is in a low power standby mode, with only the sensor being active. Once an activation is detected by the sensor, it 'wakes' the processors triggering a 2.5 second window during which subsequent activations are accumulated into a single event. The event is then time stamped in UTC format and transmitted to the nearest Gateway or Hub. Upon successful transmission the message is deleted and the unit returns to the low power standby mode.

Messages that are failed to be acknowledged are stored and the dispenser attempts to retransmit the message(s) a maximum of 5 times at timed 2 second intervals. On each retry the dispenser will enter broadcast mode in an attempt to locate a Gateway or Hub with a more reliable radio link. If the message fails on all 5 retries it will then be discarded.



STATE OF CHARGE MESSAGE

A daily state of charge message is transmitted that includes the calculated battery level, provided there are no failed messages waiting to be transmitted. The time of day is randomised based on the address of the dispenser. During the transmission of the state of charge message the dispenser enters a broadcast mode to re-acquire the time and validates that it is connected to the Gateway or Hub with the highest signal strength.

CONTACT DETAILS

For all product enquiries please contact your local DEB company.
Full contact details can be found at:

www.debgroup.com



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FCC APPROVAL

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 of the device.

INSTALLATION CONDITIONS

The 1135-300 must operate with a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment

INDUSTRY CANADA APPROVAL

This device complies with Industry Canada licence-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.

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.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the antenna and your body.

Cet appareil est conforme aux limitations de la norme IC RSS-102 concernant l'exposition aux radiations dans un environnement non contrôlé. Cet appareil doit être installé et utilisé avec une distance minimale de 20 cm entre l'antenne et le corps de l'utilisateur.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.