



Modular Integration Instructions

Date: August 1, 2025

FCC ID: 2AC8R-NFC4

IC ID: 12430A-NFC4

HVIN: NFC4

Model Number: NFC4

This device complies with part 15 of the FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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.

Cet appareil est conforme à la partie 15 des règles de la FCC et aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

1. Single Module Procedures

The following instructions are provided to guide host product manufacturers on how to properly integrate Elkay's NFC4 module into their host product. Failure to follow these instructions may invalidate the module's FCC and ISED grants of authorization and the host product's authorization to operate under FCC and ISED rules.

2. List of Applicable Rules

- a. FCC Part 15, Subpart C, §§ 15.207, 15.209, 15.212, 15.225.
- b. ISED: RSP-100 forms A & D, RSS-102

3. Specific Operational Use Conditions

- a. **Host Environment:** The NFC4 module is intended for use in commercial, indoor, fixed drinking-water, host products. Currently the module is configured with proprietary electrical connections, mounting design and environmental protection for use in Elkay host products.
- b. **Minimum Separation Distance (RF Exposure):** The NFC4 module shall be installed and operated a minimum of 20cm between the module antenna and the host product user.
- c. **Co-Location:** If the NFC4 module is co-located in a host product with other transmitters that operate simultaneously, the host product is required to be evaluated using the FCC and ISED multi-transmitter procedures.
- d. **Environmental Conditions:** The NFC4 module is designed for indoor use only. Therefore, the host product integrator must take all protective measures to ensure the module remains within the following limits:
 - Operating Temperature: 50°F to 90°F (10°C to 32°C)
 - Operating Humidity: 30% to 80% RH
- e. **Safety:**
 - The NFC4 module is a proprietary electronic component which shall only be installed by a trained professional.
 - Follow general ESD protective measures when installing the NFC4 module including use of antistatic wristbands or special gloves.

NOTE: In the event these conditions cannot be met, then the FCC and ISED authorizations are no longer considered valid and the FCC and ISED markings cannot be used on the host product.

4. **Antennas**

The NFC4 module incorporates an omni-directional trace antenna that must not be changed. No alternate antenna is allowed.

Le module NFC4 intègre une antenne de traçage omnidirectionnelle qui ne doit pas être modifiée. Aucune antenne alternative n'est autorisée.

5. **RF Exposure Considerations**

The NFC4 module complies with FCC radiation exposure limits set forth for an uncontrolled environment and shall be installed and operated with a minimum distance of 20cm between it and the host product user's body.

Le module NFC4 est conforme aux limites d'exposition aux rayonnements de la FCC définies pour un environnement non contrôlé et doit être installé et utilisé avec une distance minimale de 20 cm entre lui et le corps de l'utilisateur du produit hôte

6. **Label and Compliance Information**

a. **FCC & ISSED markings** FCCID: 2AC8R-NFC4; IC: 12430A-NFC4; HVIN: NFC4 are indelibly marked and clearly visible on the NFC4 module PCB.

Marquages FCC et ISDE FCCID : 2AC8R-NFC4 ; CI : 12430A-NFC4 ; HVIN : Les NFC4 sont marqués de manière indélébile et clairement visibles sur le circuit imprimé du module NFC4.

b. **Host Labeling Requirement:** Host product shall display clearly visible on its exterior the word "Contains" (or other similar meaning word) followed by the above markings.
Exigence d'étiquetage de l'hôte : Le produit hôte doit afficher clairement à l'extérieur le mot « Contient » (ou un autre mot de signification similaire) suivi des marques ci-dessus.

c. **User Information:** Host product instructions shall include required FCC and ISSED statements and radiofrequency exposure guidelines.
Information pour l'utilisateur : Les instructions du produit hôte doivent inclure les déclarations requises de la FCC et de l'ISDE ainsi que les lignes directrices sur l'exposition aux radiofréquences.

Reference: Part 15 Subpart A §15.9, §15.105, Subpart C §15.212, RSS-Gen clause 8.4 and KDB Publication# 784748.

7. **Test Modes and Additional Testing Requirements**

When the NFC4 module is integrated, the host product shall be investigated to ensure no radiated, conducted or spurious emission limits are exceeded due to the module, digital circuitry and/or the physical characteristics of the host product. This is particularly important when integrating with other modular transmitters!

Supported Test Mode: Continuous transmission at 13.56 MHz.

Reference: FCC Part 15 Subpart B, §§ 15.107, 15.109, 15.225.

8. **Additional Testing and Part 15 Subpart B Disclaimer**

This NFC4 module is authorized to specific rules as specified on its FCC and ISSED grants and does not exempt the host from ensuring compliance to all FCC and ISSED rules applicable to the host product. It is therefore recommended that the host product manufacturer reference KDB Publication# 996369 D04 *Module Integration Guide* for best practice on radiofrequency design, testing and ensuring compliance.

Important: No changes or modifications to the NFC4 module are allowed without written authorization from Elkay Manufacturing Company. Failure to abide by these instructions may result in invalidating the NFC4 module's FCC and ISSED grants authorizations. For any questions or clarifications, please contact:

Elkay Manufacturing Company

A handwritten signature in blue ink, appearing to read "René G. Laude". The signature is fluid and cursive, with the first name "René" being more prominent.

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