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SERVICE MANUAL

NF-02 SUBGIGA RFID READER

NF-02
Tentative Edition

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Notice

DIGI®

The material contained in this document is proprietary and for information only and is subject to change without notice. Teraoka Weigh-System assumes no responsibility for any errors or damages arising from misinterpretation of any procedure.

Screen displays, operating procedures and supporting features might vary with different software version releases.

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Teraoka Weigh-System Pte Ltd 4, Leng Kee Road #06-01 SIS Building Singapore 159088

ii) Safety Information

The operator of the equipment shall comply with the safety and warning indications and procedures outlined in this document. Teraoka Weigh-System Pte Ltd assumes no responsibility or liability for failure to comply with these requirements.

Repair and servicing of product, shall only be carried out by trained and qualified personnel.

Disclaimer:

Specifications are subject to change without notice. All dimensions shown are approximate. Please be aware that Teraoka has indicated that its hardware and software used in the product may require additional updates in the future as our product is continually under development. The need for such updates most likely applies to the Printer software.



CAUTIONS:

FOR PLUGGABLE EQUIPMENT, THAT THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.

POUR LE MATÉRIEL RACCORDÉ PAR PRISE DE COURANT, LE SOCLE DE PRISE DE COURANT DOIT ÊTRE INSALLÉ À PROXIMITÉ DU MATÉRIEL ET DOIT ÊTRE AISÉMENT ACCESSIBLE.

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

POUR NE PAS COMPROMETTRE LA PROTECTION CONTRE LES RISQUES D'INCENDIE, REMPLACER PAR UN FUSIBLE DE MÊME TYPE ET DE MÊME CARACTÉRISTIQUES NOMINALES.

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS

IL Y A DANGER D'EXPLOSION S'IL Y A REMPLACEMENT INCORRECT DE LA BATTERIE. REMPLACER UNIQUEMENT AVEC UNE BATTERIE DU MÊME TYPE OU D'UN TYPE RECOMMANDÉ PAR LE CONSTRUCTEUR. METTRE AU RÉBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS DU FABRICANT.

iii) Safety Regulations



Federal Communication Commission Interference Statement

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 of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

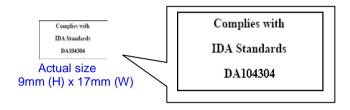
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IDA Compliance Statement: (Singapore)

This equipment registered to comply with IDA (Info-Communications Development Authority of Singapore) Standard under Dealer's Class License.



1. General

1.1 Model Specification

Model : NF-02

Dimension (in mm) : 180.0 (L) X 39.0 (W) X 39.0 (H)

Modulation : PR-ASK

Frequency Band : TELEC (916~923MHz)

FCC (902-928MHz)

Data Rate : 250 kbps

Rated Transmit Power : 25dBm

Radio Range : Up to 50cm direct in sight (OPEN AIR)*

Voltage & Current : 5Vdc, 450mA (max)

USB cable length : 2meter

Housing material : ABS, *ultrasonic welding to case up

1.2 Operating Specification

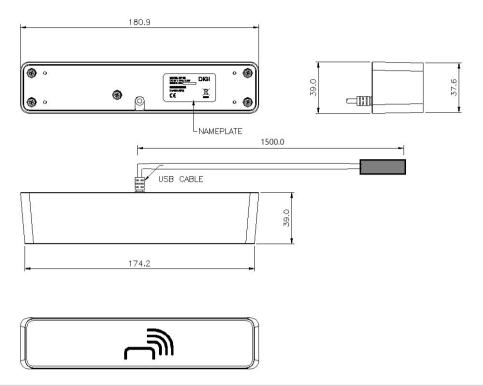
Power Source : External : From USB 5V DC source

: Internal : From SM5500 scale USB port

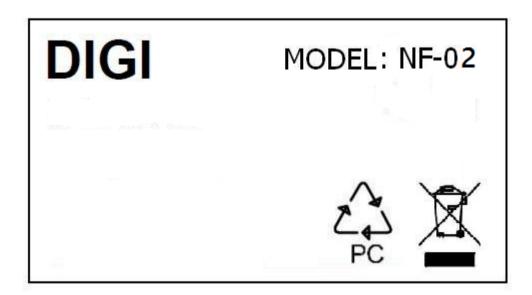
Operating Temperature : $0 \, ^{\circ}\text{C}$ to $40 \, ^{\circ}\text{C}$

Humidity : 95% max non condensing

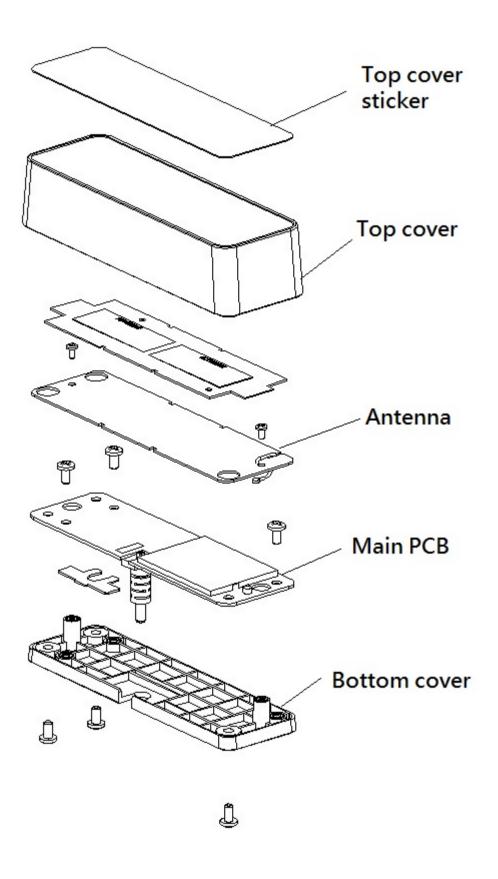
2.1 Dimension



2.2 Nameplate



2.3 Exploded View



3. NF-02 Setup Diagram

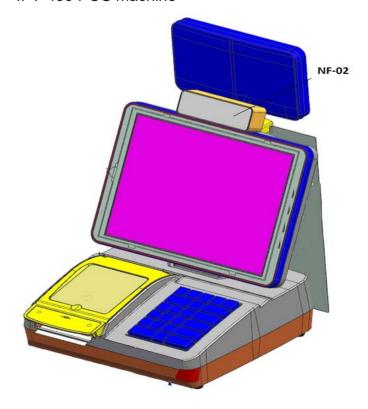
3.1 Setup Diagram

The NF-02 RFID reader will used as accessories within teraoka machine. NF-02 to be fixed at designated location of Teraoka machine, eq weighing and POS machine.

The NF-02 will detect UHF passive tags which contain user id for logon purpose. The typical detection range between tag and reader is 50cm or more. Upon detection, the NF-02 would enter idle mode.



IPT-400 POS machine



PICO V2 Machine

4. Revision Records

Serial No.	Date	Edition Status	Description of Changes	Software Version	Remarks
001	Oct '15 Nov'15	00	First Release Add setup diagram for machine		Tentative Edition
002	Nov'15	01	Add setup diagram for machine		
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