

# TORONTO GTA FARE SYSTEM

## POST INSTALLATION AND INTERFACES

Rev	Date	Description	By	Checked	Approved
A1	22/Avril/2008	Security	J-G Engerrand		
A0	07/Mars/2007	Creation	J-G Engerrand		
TORONTO GTA FARE SYSTEM				Reference 4020 18481	

### Post installation and interfaces

Ref: 4020 18481

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**LIST OF MODIFICATIONS**

Version	Date (dd/mm/yy)	Name	Object of Modification	Modification
A0	07/mars/2007	J-G Engerrand	creation	
A1	22/avril/2008	J-G Engerrand	§ 2	Warning to users

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**Post installation and interfaces**

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## 1 GENERAL DESCRIPTION

The Public Office Selling Terminal (POST) is the equipment dedicated to the media selling process performed by an employee.

The customer can ask to buy a new Contactless card or to reload an existing one.

The employee use the CSC kit in order to read the value on the existing card or to load a new value (or other configuration) in the media.

The equipment is based on a personal computer equipped with some peripherals (CSC kit, card reader, receipt printer, customer display).

It is easy to install on a dedicated desk for example.

The external connection of the equipment are the power supply and the LAN.

## 2 SECURITY

### 2.1 FCC REQUIREMENTS FOR USA

#### CARD READER CSC KIT POST OH 12

#### WARNING TO USERS IN THE UNITED STATES

##### Federal Communication Commission Interference Statement 47 CFR Section 15.105(b)

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.

#### NO UNAUTHORIZED MODIFICATIONS

##### 47 CFR Section 15.21

**CAUTION:** This equipment may not be modified, altered, or changed in any way without signed written permission from THALES TRANSPORTATION SYSTEMS SA. Unauthorized modification may void the equipment authorization from the FCC and will void the THALES TRANSPORTATION warranty.

#### ANTENNA REQUIREMENT

##### 47 CFR Section 15.203

**CAUTION:** This equipment must be professionally installed.

**CAUTION:** This equipment must be use only with the supplied RS 232 cable shielded and ferrites installed.

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### Post installation and interfaces

This device CARD READER CSC KIT POST OH 12 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.

## **2.2 IC REQUIREMENTS FOR CANADA**

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 reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Afin de réduire le risque d'interférence aux autres utilisateurs, il faut choisir le type d'antenne et son gain de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour l'obtention d'une communication satisfaisante. Cet appareil numérique de la classe B respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

## **2.3 TEMPERATURE**

Working temperature : 0 to 40 °C

## **2.4 BATTERY**

Into the CSC-KIT-POST change the battery every 5 years.

Use only Lithium cells, model LS14500, 3.6V, 85°C m anufactured by Saft

### **CAUTION**

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

### **ATTENTION**

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE  
BATTERIE DE TYPE INCORRECT.  
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS

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## **Post installation and interfaces**

### 3 SYNOPSIS

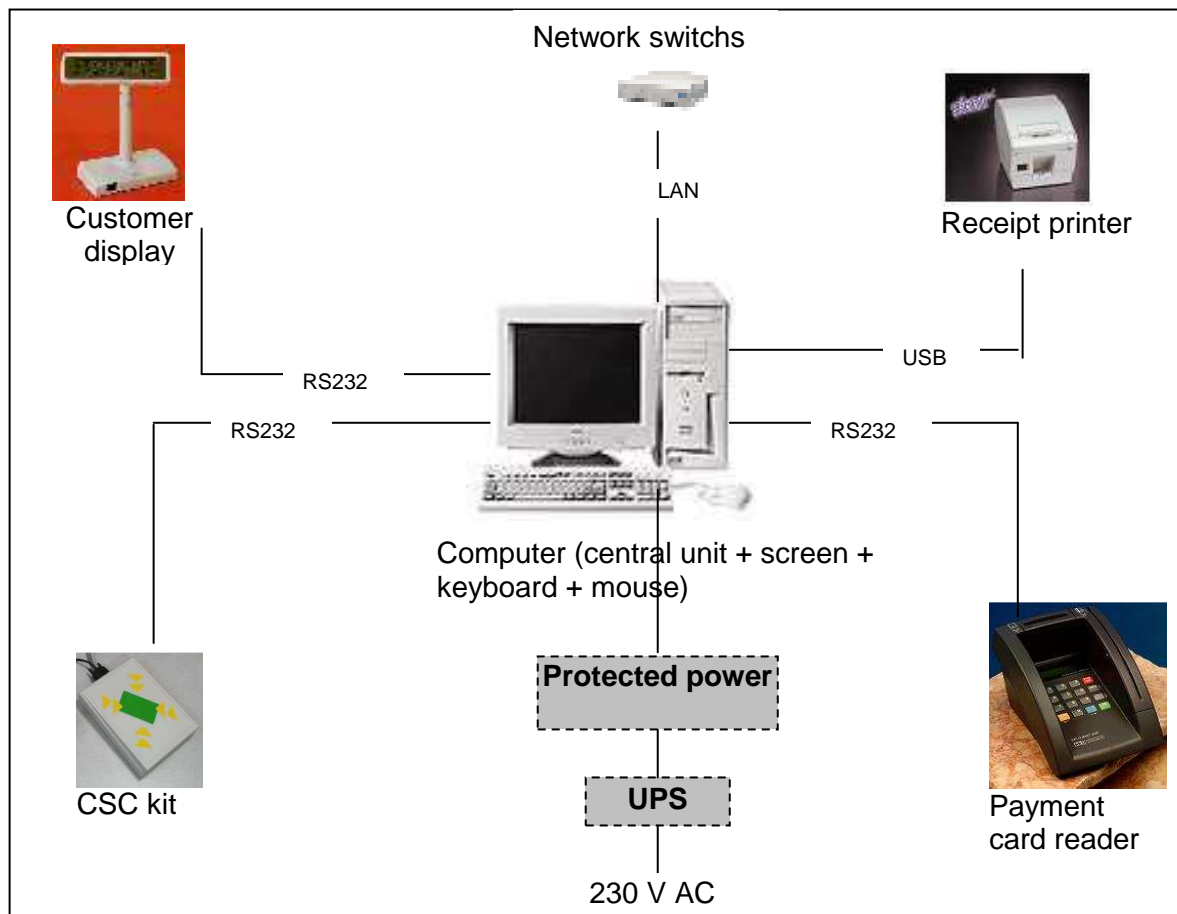


Figure 1 : POST Synopsis



## 4 PHYSICAL ASPECT

The POST is based on a Personal Computer.

Dimensions of the central unit are :

Width : 170 mm  
Depth : 450 mm  
Height : 450 mm



Figure 2 : POST picture

Each element must be installed in a appropriate table or specific furniture, and connected together as indicated on the synopsis.

## 5 CONNECTIONS

### 5.1 POWER CONNECTIONS

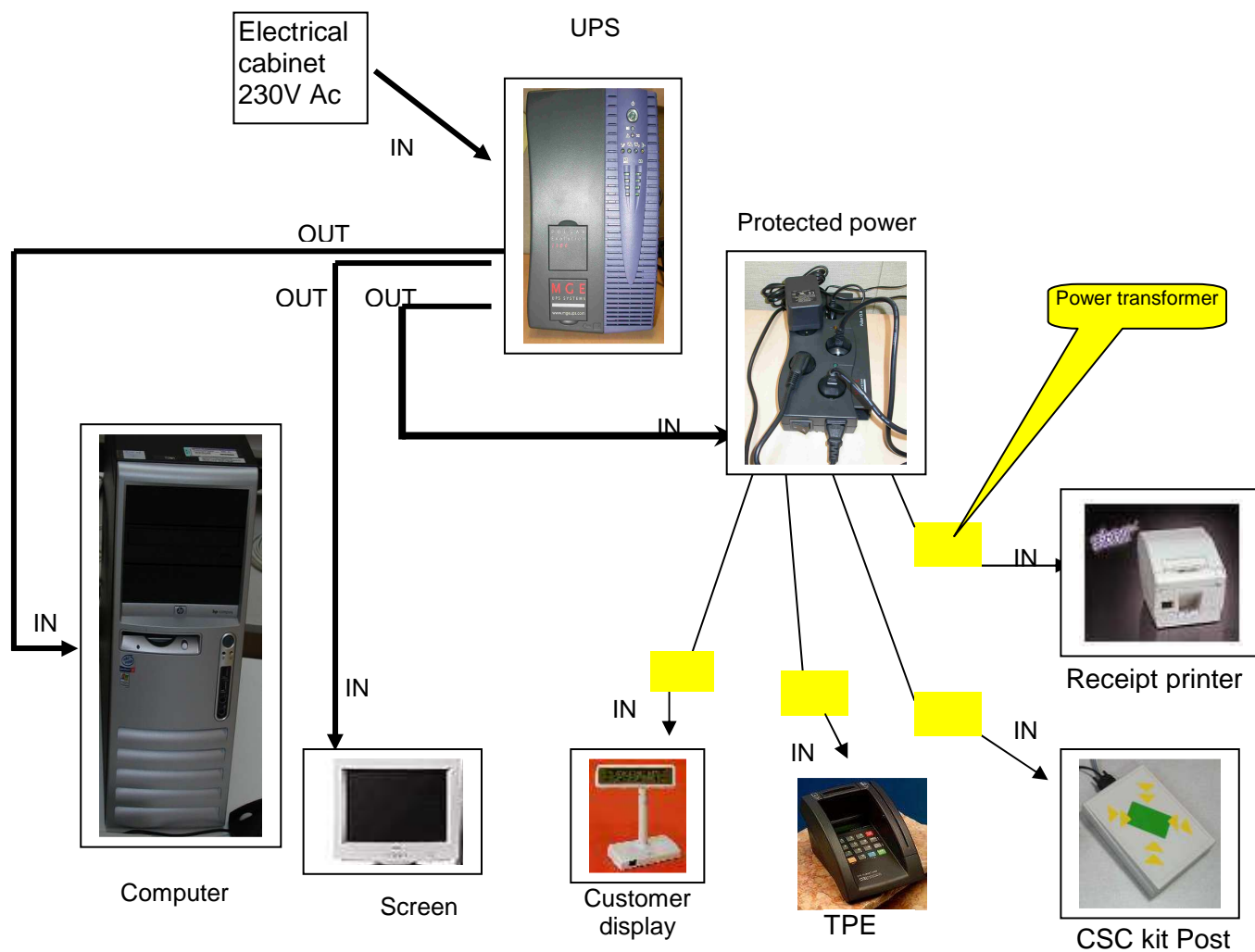


Figure 3 : Power schematic diagram

230 V AC wall sockets (+ extensions) have to be installed close to the equipment.  
European standard is the reference for sockets. Standard power cables from PC to the wall socket are provided with the equipment. Any extensions or adaptors are provided with the equipment.

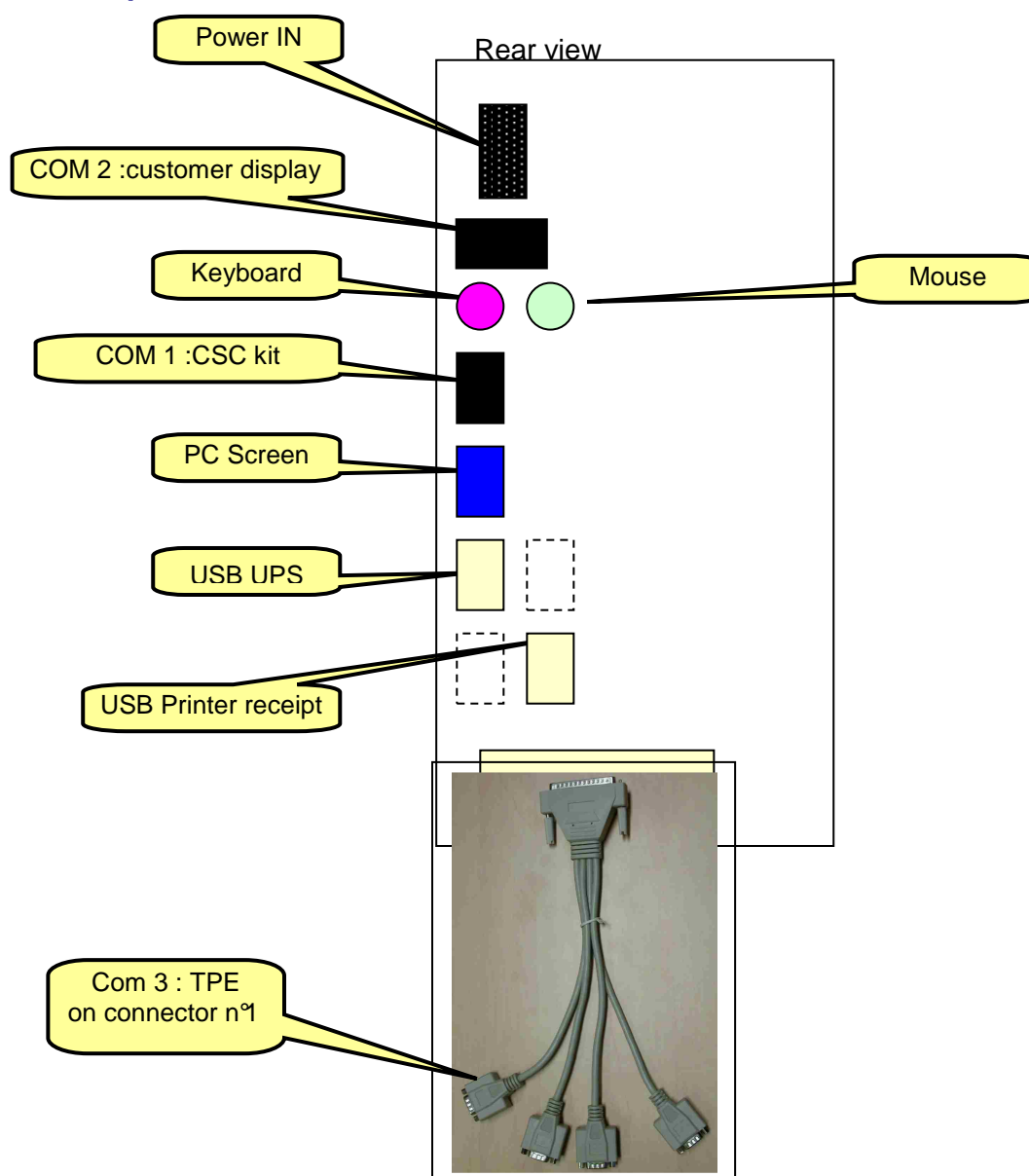
## 5.2 STATION NETWORK CONNECTIONS

**Attention : RJ45 cable and connectors between the POST and the station network are not provided with the equipment, neither switches and routers are.**



## 5.3 DATAS CONNECTIONS

### 5.3.1 computer connections

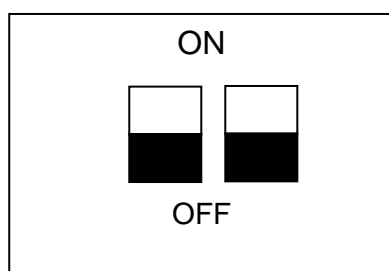


## Post installation and interfaces

### 5.3.2 Customer display configuration



Screen dip switches



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## 6 STORAGE AND TRANSPORTATION

The POST is delivered in its original box concerning the PC.

Dimensions of the central unit package are :

Width : 330 mm  
Depth : 580 mm  
Height : 600 mm

Weight of the central unit is approx. : 15 Kgs

Dimensions of the screen display package (if ray-cathode tube) are :

Width : 450 mm  
Depth : 520 mm  
Height : 500 mm

Weight of the screen is nearly : 15 Kgs

Keyboard and mouse are provided inside the central unit package.

CSC kit, customer display, card reader and receipt printer are also small equipments provided in separate packages, whose weight and dimension are not very important.

Storage of each element must be done in a dry place.

Transportation and handle must be effectuated with a lot of care as central units, screens and other peripherals are very fragile devices.