

## **Part 1            General**

### **1.1            SUMMARY**

- .1    Section Includes.
  - .1       Requirements and procedures for identification of devices, sensors, wiring tubing, conduit and equipment, for building Energy Monitoring and Control System (EMCS) Work and nameplates materials, colours and lettering sizes.

### **1.2            REFERENCES**

- .1    Canadian Standards Association (CSA International).
  - .1       CSA C22.1, The Canadian Electrical Code, Part I (19th Edition), Safety Standard for Electrical Installations.

### **1.3            DEFINITIONS**

- .1    For acronyms and definitions refer to Section 25 05 01 - EMCS: General Requirements.

### **1.4            SYSTEM DESCRIPTION**

- .1    Language Operating Requirements: provide identification for control items in French.

### **1.5            ACTION AND INFORMATIONAL SUBMITTALS**

- .1    Submittals in accordance with Section 01 33 00 - Submittal Procedures supplemented and modified by requirements of this Section.
- .2    Submit to Departmental Representative for approval samples of nameplates, identification tags and list of proposed wording.

## **Part 2            Products**

### **2.1            NAMEPLATES FOR PANELS**

- .1    Identify by Plastic laminate, 3 mm thick, matt white finish, square corners, lettering accurately aligned and engraved into core.
- .2    Sizes: 25 x 67 mm minimum.
- .3    Lettering: minimum 7 mm high, black.
- .4    Inscriptions: machine engraved to identify function.

### **2.2            NAMEPLATES FOR FIELD DEVICES**

- .1    Identify by plastic encased cards attached by chain.
- .2    Sizes: 50 x 100 mm minimum.
- .3    Lettering: minimum 5 mm high produced from laser printer in black.

- .4 Data to include: point name and point address.
- .5 Companion cabinet: identify interior components using plastic enclosed cards with point name and point address.

## **2.3 NAMEPLATES FOR ROOM SENSORS**

- .1 Identify by stick-on labels using point identifier.
- .2 Location: as directed by Departmental Representative.
- .3 Letter size: to suit, clearly legible.

## **2.4 WIRING**

- .1 Supply and install numbered tape markings on wiring at panels, junction boxes, splitters, cabinets and outlet boxes.
- .2 Colour coding: to CSA C22.1. Use colour coded wiring in communications cables, matched throughout system.
- .3 Power wiring: identify circuit breaker panel/circuit breaker number inside each EMCS panel.

## **2.5 CONDUIT**

- .1 Colour code EMCS conduit.
- .2 Pre-paint box covers and conduit fittings.
- .3 Coding: use fluorescent orange paint and confirm colour with Departmental Representative during "Preliminary Design Review".

## **Part 3 Execution**

### **3.1 NAMEPLATES AND LABELS**

- .1 Ensure that manufacturer's nameplates, CSA labels and identification nameplates are visible and legible at all times.

### **3.2 EXISTING PANELS**

- .1 Correct existing nameplates and legends to reflect changes made during Work.

**END OF SECTION**