

**27 01 00 TELECOMMUNICATIONS ROOMS AND SYSTEMS GUIDELINES**

General

The 'Communication Systems Guidelines' document outlines University requirements for telecommunication rooms and systems. The document may be obtained by emailing a request to the following address:

[netadmin@uvic.ca](mailto:netadmin@uvic.ca)

**27 53 00 DISTRIBUTED SYSTEMS**

**27 53 13 CLOCK SYSTEMS**

Interior Lighting Time Clock Control

1. For University Residence Buildings, a central low-voltage control system may not be required and in such cases, time clock controlling 3 circuits independently, complete with manual bypass switch for each circuit shall be provided. Control of corridor lighting shall be such that emergency night lighting is left un-switched while the remaining lighting is controlled by timer to reduce energy consumption by turning parts of the corridor lighting off at late night hours. Manufacturer: TORK "W" Series.
2. Interface the corridor lights to turn on when the fire alarm system is activated.

Installation

1. Locate and install equipment such that it is acceptance to maintenance staff and to keep noise away from teaching spaces.
2. Provide complete system verification and commissioning including training to University Maintenance staff.

Clock Systems – System Description

1. Install a complete Global Positioning system (GPS) Master – GPS Satellite Synchronous Wireless Clock system to tie into existing campus system. The GPS clock system is to include GPS receivers and transmitters and clocks, as manufactured by Primex Wireless.
2. Clocks are typically required in all classrooms, laboratories, lecture theatres, study spaces and other locations as defined by the University of Victoria.
3. The system is to be modular in design to allow for future expansion.

Wireless Master Transmitter

1. Transmitter shall be 1 watt complete with 16 selectable channels on 72 MHz frequency, DST bypass switch, time zone adjustment switch, LCD display, durable metal housing, integral antenna mounted on top of transmitter housing, wall mounting rack, UPS battery back-up, and extended 4 year warranty. Primex #14143.

GPS Receiver

1. GPS receiver to be compatible with master transmitter and complete with #14014 interconnecting coaxial cable, mounting bracket and hardware.

Clocks

1. 12 hour analog type complete with second hand sweep and 12 1/2" diameter high impact polycarbonate lens, brushed aluminum metal frame, integral receiver for wireless communication to master transmitter, and custom UVic logo on clock face to match existing campus clocks. Provide clock lock mounting option for tamper control. Finish shall be brushed aluminum. Connect at 120V to

wall mounted recessed clock type receptacle. Primex #SNS4Z180-120V (single sided), SNS4Z227-120V (dual-sided).

#### Electronic Transmitting Unit

1. Electronic transmitting unit: solid state transmitter with 120 V, 60 Hz power supply, oscillator, 2-stage push pull power amplifier capable of generating (250) W of carrier signal power.
2. Signal output: coupled to building main secondary bus through capacitors mounted in transmitter unit.

#### Satellite Access

Include Industry Canada application fee for 1Watt Satellite Access. Primex #IC2365-1.

#### Clock Power

Clocks shall be powered via a 120 volt outlet. Battery operated units are NOT acceptable.