



.1 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.

.2 Wireless Master Transmitter

- .1 Transmitter shall be one 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 four (4) year warranty. Primex #14143.

.3 GPS Receiver

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

.4 Clocks

- .1 12 hour analog type complete with second hand sweep and 12 ½” 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).

.5 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.

.6 Satellite Access

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

.7 Clock Power

- .1 Clocks shall be powered via a 120 volt outlet. Battery operated units are **not** acceptable.