

BOSTON TRANSPORTATION DEPARTMENT
Specification for Rack Mounted Satellite Time Sync (GPS) Unit

February 16, 2022

The GPS time sync system shall consist of a discrete antenna and satellite time sync electronics designed for installation in a NEMA TS-2 controller detector rack.

An I/O module shall be included with the system which will fit into NEMA TS-2 input slots.

An SMA connector shall be provided for connection of the antenna.

The unit shall set time and date (day, month and year) in an ATC or NEMA TS2 controller per BTM specifications. Time shall be reset once a day except that after a power outage, an immediate time/date update shall occur when power is restored.

The GPS time sync system shall be designed to operate from a 24VDC power source over a temperature range from -30F to + 165F.

A manual for set up and trouble shooting of the system shall be supplied.

Each unit shall be warranted to be free from defects in material and workmanship for a period of at least 2 years from the date of installation.