# Innovation Wireless

## IP-POE Clock System

Innovation Wireless
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## Product Guide Specification

This product specification is written According to the Construction Specifications Institute (CSI), *MasterFormat™, Section Format,* and *Page Format,* contained in the CSI *Manual of Practice.*

Reference section 16730, 16735.
Reference Master Format  section 275313 (27 53 13 Clock Systems)

Specifier Note: The following list should be reviewed and edited by Architect/Engineer as required for specific project

## PART 1 – GENERAL

### 1.1 General Requirements and Scope

A. Furnish and install a complete new IP-POE Synchronized Clock system.

### 1.2 Summary

A. IP-POE Clock Software
B. IP-POE Clocks

### 1.3 Related Divisions and Sections

A. Division 27 - Common Work Results for Communications: conductors and cables].

### 1.4 References

A. Innovation Wireless Operations Manual and Associated drawings.

B. Definitions:

1.**PoE –** A recognizable standard IEEE802.3af for delivering power over Ethernet cable.  PoE uses a single CAT5 Ethernet cable or greater to provide power and network data to the connected device.
2.**NTP -** Network Time Protocol
3.**FCC –** Federal Communications Commission
4.**DST** – Daylight savings time

## 1.6    Submittals

A. **System Product:** Submit data sheet for each component and system technical manual.

## 1.7   Quality Assurance

A. **Qualifications:**

1. **Manufacturer:** Company specializing in manufacturing of timekeeping products with a minimum of 10+ year's experience.

2. **Installer:** Company with documented experience in the installation of commercial timekeeping systems or factory authorization.

B. **Warranty:**  contractor to provide 1year system performance warranty after owner occupation and manufacturer to provide a minimum of 3 years warranty on product after shipment.

C. **Operation Costs**: No reoccurring software fees or technical phone support fees are permitted.

## 1.8   Substitutions

A. Any proposed substitutions must be identified not less than 10 days prior to bid date.

## 1.9   Regulatory Requirements

A. Equipment and components furnished shall be manufacturer's latest model.

B. System Transmitter(s) shall comply with all FCC rules.

C. System shall be installed in compliance with local and state authorities having jurisdiction

## PART 2 – PRODUCTS

## 2.1    Manufacturers

A. Innovation Wireless: - basis of design.   5306 Beethoven, Los Angeles, CA 90066 Mark Schneider C-330-273-0032  O-888-559-5565 Website: **www.InnovationWireless.com**

B. Franklin Instruments

C. If needed

## 2.2   System Description and Operation

The Innovation POE clocks receive a time correction through the customers LAN and NTP time source.  The POE Clock system settings can be managed through the PC based software. The system clocks will be synchronized to the same second and automatically update for DST time change.

## 2.3   Software & Equipment

**A.  Software**: Innovation PC - Windows based software

> **Specifier Note: Software also able to support WIFI synchronized clocks if needed for application.  Request specification information for WIFI clock component part numbers or visit www.innovationwireless.com**

1. The Innovation IP-POE clocks & software provides the following:
    a.  Naming updates for clocks.
    b.  MAC Address.
    c.  Time zone options.
    d.  Synchronization status.
    e.  Count down option for digital clocks.
    f.  Count down completed bell (sound) notification for digital clocks.
    g.  4 letter message option on digital clocks - "Bell" "Fire"
    h.  Brightness scheduling on digital LED displays.
    i.  10 NTP time source options.
    j.  12 / 24 display options
    k.  PC - Windows based software.

2. The software shall have no re-occurring software fees, maintenance fees or tech support fees.

**B.  Digital POE Clocks**: Located on the same LAN as the software. Digitals must have a metal housing. Plastic or acrylic housings are not permitted.

1. **Digital Clock Models:** (POE)   Select models as needed.
    a.  2.5" x 4 digit, Red Display   Model **# 631407-POE**
    b.  2.5" x 6 digit , Red Display   Model **# 631307-POE**
    c.  4" x 4 digit, Red Display   Model **# 641307-POE**
    d.  4" x 4 digit Dual Sided Wall Mount w/ Red Display **# 641327-POE**

**C.  Analog POE Clocks**: Located on the same LAN as the software.

1. **Analog Clock Models:** (POE)   Select models as needed.
    a. 13" Standard Model **# 210001-POE**
    b. 16" Standard Model **# 220001-POE**
    c.  13" Aluminum Model **# 511006-POE**
    e.   16" Aluminum Model **# 521006-POE**

    **f.** Custom Logo's options are available for analog clocks.
   **2.** **Dual Sided Brackets :** Provided to protect clocks in harsh environments:
    **a.** Wall Mount Bracket for 13-inch Standard clocks. Model **#210014**
    **b.** Wall Mount Bracket for 16-inch Aluminum clocks. Model #**210016**
   **3.** **Wire guards:** Provided to protect clocks in harsh environments:
    **a.** 16 x 16 inch Wire Guard for 13-inch clocks. Model #**104001**
    **b.** 19 x 19-inch Wire Guard for 16-inch clocks. Model #**104002**

## PART 3 - EXECUTION

### 3.1 Examination

Verify that construction is complete in spaces to receive equipment and that rooms are clean and dry.

Verify that all POE connections for clocks are located at the exact installation point and is fully functional.

### 3.2 System Installation

Install in accordance with manufacturer's installation manual furnished with system.

**A. Software**
 1. Software must be installed on a Windows based PC on the same LAN as POE Clocks. Manage software settings as needed with appropriate NTP time source and time zone.
 2. See users guide for software features and instructions.

**B. Clocks**

1. Connect clock to LAN via RJ45 connection. Clocks must be on the same LAN as the software.

2. Hang Clocks per instructions found in install guide.

### 3.3 Cleaning

Prior to final acceptance, clean exposed surfaces of all system components.

### 3.4 Manufacturer Services

Provide phone or e-mail technical assistance at no expense to the end user as required. Operation manuals can be found at innovationwireless.com.

### 3.5 Field Inspection

Prior to final acceptance, inspect entire system to ensure proper functioning and synchronization of components.

Contact Mark Schneider at Innovation Wireless at C 330-273-0032 or O 1-888-559-5565 for further information or assistance. Innovation offers BICSI CEC accredited presentations as scheduled.