

General

The PTW-3300 is an intelligent Fire Alarm Control Panel designed for medium- to large-scale facilities. Fire emergency detection and evacuation are extremely critical to life safety, and the PTW-3300 is ideally suited for these applications.

The PTW-3300 is ideal for virtually any application because it features a modular design that is configured per project requirements. With one to ten Signaling Line Circuits (SLCs), the PTW-3300 supports up to 3,180 intelligent addressable devices when it compatible with PW-300P FlashScan Series detectors, up to 1,980 intelligent addressable devices when it compatible with PW-330DP CLIP Series detectors.

Information is critical to fire evacuation personnel, and the PTW-3300's large 640-character Liquid Crystal Display (LCD) presents vital information to operators concerning a fire situation, fire progression, and evacuation details.

A host of other options are available, including single- or multichannel voice; firefighters telephone; LED, LCD, or PC based graphic annunciators; fire or integration networking; advanced detection products for challenging environments, and many additional options.

Features

- One to ten isolated intelligent Signaling Line Circuits (SLC) Style 4, 6 or 7.
- With PW-300P series, up to 159 detectors (photo, thermal) and 159 modules (N.O. manual stations, two-wire smoke, notification, or relay) per SLC. 318 devices per loop/3180 per FACP or network node.
- With PW-330DP series, up to 99 detectors (photo, thermal) and 99 modules (N.O. manual stations, two-wire smoke, notification, or relay) per SLC. 198 devices per loop/1980 per FACP or network node.
- Large 640-character LCD backlit display (16 lines x 40 characters) or display-less (a node on a network).
- Network option supports PTW-3300, PTW-NCA Network Annunciator, or ProWorks Network workstations.
- UniNet® compatible.
- Built-in Alarm, Trouble, Security, and Supervisory relays.
- VeriFire® Tools online/offline program option.
- Application code is saved in Flash memory, eliminating the need to change EPROMs.
- Built-in Degraded Mode option. In the event of a CPU failure, the system is capable of general alarm if a fire condition is present.
- Weekly Occupancy Schedules allow changing sensitivity by time of day and day of week.



PTW-3300 (left) and PTW-3300 with DVC audio option (right)

- Optional universal 2040-point DACT.
- EIA-485 annunciators, including custom graphics.
- Printer interface (80-column and 40-column printers).
- History file with 4000-event capacity in nonvolatile memory, plus separate 1000-event alarm-only file.
- Advanced history filters allow sorting by event, time, date, or address.
- · Alarm Verification selection per point, with tally.
- · Autoprogramming and Walk Test reports.
- Positive Alarm Sequence (PAS) Presignal.
- · Silence inhibit and Auto Silence timer options.
- March time and temporal signals supported on panel circuits.
- Field-programmable on panel or on PC, with VeriFire® Tools program, also check, compare.
- · Non-alarm points for lower priority functions.
- Remote ACK/Signal Silence/System Reset/Drill via monitor modules.
- Powerful Boolean logic equations 1000.
- Supports SCS Series smoke control system in both HVAC or FSCS modes.
- EIA-232 printer port.
- EIA-485 annunciator port.

SE-191010-C



Page 1 of 7 www.protectwell.com



640-CHARACTER DISPLAY FEATURES

Backlit, 640-character display.

Program keypad: full QWERTY keypad.

Up to nine users, each with a password and selectable access levels.

11 LED indicators: Power; Fire Alarm; Pre-Alarm; Security; Supervisory; System Trouble; Other Event; Signals Silenced; Point Disabled; CPU Failure; Controls Active.

Membrane Switch Controls: Acknowledge; Signal Silence; Drill; System Reset; Lamp Test.

LCD Display: 640 characters (16 lines x 40 characters) with long-life LED backlight.

FLASHSCAN® INTELLIGENT FEATURES

Polls up to 318 devices on each loop in less than two seconds.

Activates up to 159 outputs in less than five seconds.

Multicolor LEDs blink device address during Walk Test.

Fully digital, high-precision protocol.

Manual sensitivity adjustment - up to nine levels.

Pre-alarm intelligent sensing - up to nine levels.

Sensitivity levels:

- Ion - 0.5 to 2.5%/foot obscuration.

- Photo - 0.5 to 2.35%/foot obscuration.

- Acclimate Plus™ 0.5 to 4.0%/foot obscuration.
- IntelliQuad 1.0 to 4.0%/foot obscuration.
- IntelliQuad™ PLUS 1.0 to 4.0%/foot obscuration

Drift compensation.

Multi-detector algorithm involves nearby detectors in alarm decision.

Automatic detector sensitivity testing (NFPA-72 compliant).

Maintenance alert (two levels).

Self-optimizing pre-alarm.

Programmable activation of sounder/relay bases during alarm or pre-alarm.

Read Status displays the level of detector cleanliness.

Advanced intelligent sensing algorithms differentiate between smoke and non-smoke signals.

Addressable operation pinpoints the fire location.

Early warning performance comparable to the best aspiration systems at a fraction of the lifetime cost.



NOTE: CPU2-3300 firmware version 14.0 (and higher) can support LCD-160 on the RDP port, or LCD2-80 in terminal mode, but not both at the same time.

Page 2 of 7 www.protectwell.com

SE-191010-C

Sample System Options



PTW-3300

Intelligent Addressable Fire Alarm System

PW-300APT ACCLIMATE PLUS™ LOW-PROFILE INTELLIGENT MULTI-SENSOR

- Detector automatically adjusts sensitivity levels without operator intervention or programming. Sensitivity increases with heat.
- Microprocessor-based technology; combination photo and thermal technology.
- Low-temperature signal at 40°F ± 5°F (4.44°C ± 2.77°C).

RELEASING FEATURES

- Ten independent hazards.
- Sophisticated cross-zone (three options).
- Delay timer and Discharge timers (adjustable).
- Abort (four options).

VOICE AND TELEPHONE FEATURES

- Up to eight channels of digital audio.
- [•] 35 watt, 50 watt, 75 watt, and 100/125 watt digital amplifiers
- (DAA2/DAX series and DS series).
- Solid state message generation.
- Hard-wired voice control module options.
- Firefighter telephone option.
- 30- to 120-watt analog amplifiers (AA Series).
- Backup tone generator and amplifier option.

FlashScan® Exclusive

World-Leading Detector Protocol

At the heart of the PTW-3300 is a set of detection devices and device protocol — FlashScan. FlashScan is an all-digital protocol that gives superior precision and high noise immunity.

As well as giving quick identification of an active input device, this protocol can also activate many output devices in a fraction of the time required by competitive protocols. This high speed also allows the PTW-3300 to have the largest device per loop capacity in the industry — 318 points — yet every input and output device is sampled in less than two seconds.

The microprocessor-based FlashScan® detectors have bicolor LEDs that can be coded to provide diagnostic information, such as device address during Walk Test.

Intelligent Sensing

Intelligent Sensing is a set of software algorithms that provide the PTW-3300 with industry-leading smoke detection capability. These complex algorithms require many calculations on each reading of each detector, and are made possible by the very high-speed microcomputer used by the PTW-3300.

Drift Compensation and Smoothing. Drift compensation allows the detector to retain its original ability to detect actual smoke, and resist false alarms, even as dirt accumulates. It reduces maintenance requirements by allowing the system to automatically perform the periodic sensitivity measurements required by NFPA 72. Smoothing filters are also provided by software to remove transient noise signals, usually caused by electrical interference.

Maintenance Warnings. When the drift compensation performed for a detector reaches a certain level, the performance of the detector may be compromised, and special warnings are given. There are three warning levels:

(1) Low Chamber value;

(2) Maintenance Alert, indicative of dust accumulation that is near but below the allowed limit;

(3) Maintenance Urgent, indicative of dust accumulation above the allowed limit.

Sensitivity Adjust. Nine sensitivity levels are provided for alarm detection. These levels can be set manually, or can change automatically between day and night. Nine levels of pre-alarm sensitivity can also be selected, based on predetermined levels of alarm. Pre-alarm operation can be latching or self-restoring, and can be used to activate special control functions.

Self-Optimizing Pre-Alarm. Each detector may be set for "Self-Optimizing" pre-alarm. In this special mode, the detector "learns" its normal environment, measuring the peak analog readings over a long period of time, and setting the pre-alarm level just above these normal peaks.

Cooperating Multi-Detector Sensing. A patented feature of PTW-3300 Intelligent Sensing is the ability of a smoke sensor to consider readings from nearby sensors in making alarm or pre-alarm decisions. Without statistical sacrifice in the ability to resist false alarms, it allows a sensor to increase its sensitivity to actual smoke by a factor of almost two to one.

Field Programming Options

Autoprogram is a timesaving feature. The FACP "learns" what devices are physically connected and automatically loads them in the program with default values for all parameters. Requiring less than one minute to run, this routine allows the user to have almost immediate fire protection in a new installation, even if only a portion of the detectors are installed.

Keypad Program Edit. The PTW-3300, has the exclusive feature of program creation and editing capability from the front panel keypad, while continuing to provide fire protection. The architecture of the PTW-3300 software is such that each point entry carries its own program, including control-by-event links to other points. This allows the program to be entered with independent perpoint segments, while the PTW-3300 simultaneously monitors other (already installed) points for alarm conditions.

VERIFIRE® TOOLS

VeriFire® Tools is an offline programming and test utility that can greatly reduce installation programming time, and increase confidence in the site-specific software. It is Windows® based and provides technologically advanced capabilities to aid the installer. The installer may create the

SE-191010-C

Page 3 of 7 www.protectwell.com





entire program for the PTW-3300 in the comfort of the office, test it, store a backup file, then bring it to the site and download from a laptop into the panel.

Product Line Information

- "Configuration Guidelines" on page 4
- "Main System Components" on page 4
- "Networking Options" on page 4
- "Auxiliary Power Supplies and Batteries" on page 4
- "Audio Options" on page 4
- "Compatible Devices, EIA-232 Ports" on page 5
- "Compatible Devices, EIA-485 Ports" on page 5
- "Compatible Intelligent Devices" on page 5
- "Enclosures, Chassis, and Dress Plates" on page 6
- "Other Options" on page 7

CONFIGURATION GUIDELINES

Stand-alone and network systems require a main display. On single FACP systems (one PTW-3300), the display option is the PTW-3300 (CPU). On network systems (two or more networked fire panel nodes), at least one NCA, or ProWorks workstation annunciation device is required. Options listed as follows.

MAIN SYSTEM COMPONENTS

PTW-3300: PTW-3300 Primary Display. PTW-3300 (CPU) ships with keypad/display installed; includes 640-character backlit LCD display, QWERTY programming and control keypad. PTW-3300 (CPU) is a central processing unit and requires an AMPS-24E power supply.

LCM-320: Loop Control Module. Provides one SLC. PTW-3300 supports up to five LCM-320s and five LEM-320 expanders for a total of ten SLCs.

LEM-320: Loop Expander Module. Expands an LCM-320.

SAMPLE SYSTEM: Four-loop PTW-3300 with display:

PTW-3300 (CPU), DP-DISP, two BMP-1, CHS-M3, two LCM-320s, two LEM-320s, AMPS-24E, SCAB-A, PWDR-C4, BP2-4, BB-100, batteries.

NETWORKING OPTIONS

PTW-NCA: Network Control Annunciator, 640 characters. An alternate primary display for PTW-3300 (CPU) can be provided by the PTW-NCA, ProWorks. Using PTW-NCA as primary display enables non-English languages. On network systems (two or more networked fire panel nodes), one network display (either PTW-NCA, ProWorks) is required for every system. On network systems, the PTW-NCA connects (and requires) a standard Network Communication Module or High-Speed Network Communication Module. Mounts in a row of FACP node or in two annunciator positions. Mounting options include the DP-DISP, ADP-4B, or in an annunciator box, such as the ABS-2D. In CAB-4 top-row applications, a DP-DISP and two BMP-1 blank modules are required for mounting.

NCM-W, NCM-F: Standard Network Communications Modules. Wire and multi-mode fiber versions available.

HS-NCM-W/MF/SF/WMF/WSF/MFSF: High-speed Network Communications Modules that can connect to two nodes. Wire, single-mode fiber, multi-mode fiber, and media conversion models are available.

RPT-W, RPT-F, RPT-WF: Standard-network repeater board with wire connection (RPT-W), multi-mode fiber connection (RPT-F), or allowing a change in media type between wire and fiber (RPT-WF). Not used with high-speed networks.

ProWorks: UL-listed graphics PC workstation, ProWorks GUI software, and USB Dongle.

NFN-GW-EM-3: NFN Gateway, embedded. (Replaces NFN-GW-EM.)

NWS-3: PTW•FIRE•NET™ Web Server.

CAP-GW: Common Alerting Protocol Gateway.

VESDA-HLI-GW: VESDAnet high-level interface gateway.

LEDSIGN-GW: UL-listed sign gateway. Interfaces with classic and high-speed PTW●FIRE●NET[™] networks through the NFN Gateway.

OAX2-24V: UL-listed LED sign, used with LEDSIGN-GW.

AUXILIARY POWER SUPPLIES AND BATTERIES

AMPS-24E: One required for eachPTW-3300. Addressable power supply and battery charger with two 24 VDC outputs. Addressable by any FlashScan® or CLIP mode FACP. Charges 7 to 200 AH batteries. Occupies up to five addresses on an SLC, depending on configuration. Primary input power for panel.

APS2-6R: Auxiliary Power Supply. Provides up to 6.0 amperes of power for peripheral devices. Includes battery input and transfer relay, and overcurrent protection. Mounts on two of four positions on a CHS-4L or CHS-4 chassis.

ACPS-610: 6.0 A or 10.0 A addressable charging power supply.

FCPS-24S6/-24S8: Remote 6 A and 8 A power supplies with battery charger.

BAT Series: Batteries. AMPS-24E uses two 12 volt, 7 to 200 AH batteries.

AUDIO OPTIONS

NOTE: See "Enclosures, Chassis, and Dress Plates" on page 8 for mounting hardware.

DVC-EM: Digital Voice Command, digital audio processor with message storage for up to 32 minutes of standard quality (4 minutes at high quality) digital audio.

DVC-RPU: Digital Voice Command Remote Paging Unit for use with DVC-EM. Includes the keypad/display.

DS-DB: Digital Series Distribution Board, provides bulk amplification capabilities to the DVC-EM while retaining digital audio distribuition capabilities. Can be configured with up to four DSAMPs, supplying high-level risers spread throughout an installation.

SE-191010-C



Page 4 of 7 www.protectwell.com



DVC-KD: DVC-EM keypad for local annunciation and controls; status LEDs and 24 user-programmable buttons.

DS-AMP/E: 125W, 25 VRMS, or 100W, 70VRMS. 70VRMS requires DS-XF70V step-up transformer. Digital Series Amplifier, part of the DS-DB system.

DS-RFM, DS-FM, DS-SFM: Fiber conversion modules for DVC-EM, DS-DB distribution board, and DAA2/DAX Series amplifiers.

DAA2-5025: 50W, 25 Vrms Digital Audio Amplifier assembly with power supply; includes chassis.

DAA2-5070: 50W, 70.7 Vrms Digital Audio Amplifier assembly with power supply; includes chassis.

DAA2-7525: 75W, 25 Vrms digital audio amplifier assembly with power supply; includes chassis.

DAX-3525: 35W, 25 Vrms Digital Audio Amplifier assembly with power supply, includes chassis.

DAX-3570: 35W, 70.7 Vrms Digital Audio Amplifier assembly with power supply, includes chassis.

DAX-5025: 50W, 25 Vrms Digital Audio Amplifier assembly with power supply, includes chassis.

DAX-5070: 50W, 70.7 Vrms Digital Audio Amplifier assembly with power supply, includes chassis.

TELH-1: Firefighter's Telephone Handset for use with the DVC-EM when mounted in the CA-2 chassis.

CMIC-1: Microphone used with DVC/DVC-EM. Included with CA-2 chassis assembly.

RM-1/RM-1SA: Remote microphone assemblies, mount on ADP-4 (RM-1) dress panel or CAB-RM/-RMR (RM-1SA) stand-alone cabinets.

AA-30: Audio Amplifier, 30 watts, 25 Vrms. Includes amplifier and audio input supervision, backup input, and automatic switchover, power supply, cables.

AA-120/AA-100: Audio Amplifier. AA-120 is 120 watts, 25Vrms. AA-100 is 100 watts, 70.7 Vrms. The amplifier contains an integral chassis for mounting to a CAB-B4, -C4, or -D4 backbox (consumes one row). Includes audio input and amplified output supervision, backup input, and automatic switchover to backup tone.

DAA Series Digital Audio Amplifiers: Legacy DAA Series amplifiers are compatible with DVC systems running SR4.0. For specific information on DAA-50 series amplifiers.

COMPATIBLE DEVICES, EIA-232 PORTS

DPI-232: Direct Panel Interface, specialized modem for extending serial data links to remotely located FACPs and/or peripherals.

COMPATIBLE DEVICES, EIA-485 PORTS

ACM-24AT: PTW-3300 Series ACS annunciator – up to 96 points of annunciation with Alarm or Active LED, Trouble LED, and switch per circuit. Active/Alarm LEDs can be programmed (by powered-up switch selection) by point to be red, green, or yellow; the Trouble LED is always yellow.

AEM-24AT: Same LED and switch capabilities as ACM-24AT; expands the ACM-24AT to 48, 72, or 96 points.

ACM-48A: PTW-3300 Series ACS annunciator – up to 96 points of annunciation with Alarm or Active LED per circuit. Active/Alarm LEDs can be programmed (by powered-up switch selection) in groups of 24 to be red, green, or yellow. Expandable to 96 points with one AEM-48A.

AEM-48A: Same LED capabilities as ACM-48A; expands the ACM-48A to 96 points.

ACM-8R: Remote Relay Module with eight Form-C contacts. Can be located up to 6,000 ft. (1828.8 m) from panel on four wires.

LCD-160: Liquid Crystal Display annunciator, 160-character backlit. Can store character sets for multiple languages.

LCD2-80: Terminal and ACS mode. 80-character, backlit LCD display. Mounts up to 6,000 ft. (1828.8 m) from panel. Up to 32 per FACP.

SCS Series: Smoke control station; eight (expandable to 16) circuits.

TM-4: Transmitter Module. Includes three reverse-polarity circuits and one municipal box circuit. Mounts in panel module position (as in single-address mode applications) or in CHS-M3 position.

UDACT-2: Universal Digital Alarm Communicator Transmitter, 636 channel.

UZC-256: Programmable Universal Zone Coder provides positive non-interfering successive zone coding. Microprocessorcontrolled, field-programmable from IBM®-compatible PCs (requires optional programming kit). Mounts on a CHS-4 series chassis within PTW-3300.

COMPATIBLE INTELLIGENT DEVICES

PW-300PT: Low-profile FlashScan photoelectric detector with 135°F (57°C) thermal.

PW-300T: FlashScan thermal detector 135°F (57°C).

PW-300TR: FlashScan thermal detector $135^{\circ}F$ (57°C) with rate-of-rise.

PW-300APT: FlashScan Acclimate Plus[™] low-profile multisensor detector.

PW-330DP: Low-profile CLIP photoelectric detector.

PW-330DT: Low-profile CLIP Thermal Detector, Fixed Temperature.

JTW-BCD-PW-330DT: Low-profile CLIP Thermal Detector, Fixed Temperature and Rate of Rise Combination.

DNR: InnovairFlex low-flow non-relay duct-detector housing (order PW-300P separately).

DNRW: Same as above with NEMA-4 rating, watertight.

B224RB: Low-profile relay base.

B224BI: Isolator base for low-profile detectors.

B210LP: Low-profile base. Standard U.S. style.

B501: 4" (10.16 cm) base.

P301BH: Sounder Base for 300P Series

B500BH-3: Loop-powered Sounder Base





Page 5 of 7 www.protectwell.com



B200S: Intelligent programmable sounder base, capable of producing a variety of tone patterns including ANSI Temporal 3. Compatible with sychronization protocol.

B200SR: Sounder base, Temporal 3 or Continuous tone.

B900BI: Isolator Base for 330DP Series.

B900BH-3: Loop-powered Sounder Base for 330DP Series.

P330BH: Multi-function Detector Base for 330DP series.

P901E: Detectors Base for 330DP series.

PMM-3: FlashScan monitor module.

PMM-3P: FlashScan two-wire detector monitor module for 300DP series.

PMM-303: FlashScan miniature monitor module.

PCM-3: FlashScan control module.

PRM-3: FlashScan relay module.

M500DMR1: FlashScan dual monitor/dual relay module.

M500K: Flashscan Resettable Manual Call Point for 300P series.

BBS-2: MCP Wall Mount Back Box.

PISO-3: Isolator module for 300P series.

M501X: Mini Loop Isolator Module for 300P series.

PCM-3C: CLIP control module.

PMM-3C: CLIP relay module.

JSKM-PCM-3D: Input-Output Module, 24VDC.

PMM-3CP: CLIP Addressable 2-Wire Detector Monitor Module for 330DP series.

PISO-3E: Isolator module for 330DP series.

M330K: Addressable Manual Call Point for 330DP series.

XP6-C: FlashScan six-circuit supervised control module.

XP6-R: FlashScan six-relay (Form-C) control module.

XP10-M: FlashScan ten-input monitor module.

SLC-IM: SLC integration module, for VESDAnet detectors.

ENCLOSURES, CHASSIS, AND DRESS PLATES

CAB-4 Series Enclosure: PTW-3300 mounts in a standard CAB-4 Series enclosure (available in four sizes, "A" through "D"). Backbox and door ordered separately; requires BP2-4 battery plate. A trim ring option Is available for semi-flush mounting.

SBB-C4: Backbox;3 chassis, black.

PWDR-C4: Chassis Door. Door, lock & keys. Accepts 3 chassis, black.

 $\ensuremath{\text{ADP-4B}}$: Dress Plate, Annunicator, Mounts ACS annunicators and NCMs.

MCU-16B: Bus Manual Control Unit; Including control unit, keypad and dress plate

BP-4: Battery Dress plate; Black, used with the PTW-3300.

CHS-M3: Mounting chassis for PTW-3300 (CPU). One required for Each PTW-3300D (CPU)/PTW-3300ND (CPU).

CA-2: Chassis for FACP control panel when DVC-EM is used with firefighter's telephone. Mounts in the top two rows of a CAB-4 series enclosure.

DP-DISP: Dress panel for top row in cabinet with PTW-3300D (CPU) installed.

DP-1B: Blank dress panel. Provides dead-front panel for unused tiers; covers DAA2/DAX series or AA-series amplifier.

CHS-BH1: Battery chassis; holds two 12.0 AH batteries. Mounts on the left side of DAA2 chassis.

CA-1: Chassis, occupies one tier of a CAB-4 Series enclosure. The left side accommodates one DVC-EM and a DVC-KD (optional); and the right side houses a CMIC-1 microphone and its well (optional).

CA-2: Chassis assembly, occupies two tiers of a CAB-4 Series enclosure. The left side accommodates one DVC-EM mounted on a half-chassis and one PTW-3300 or PTW-NCA mounted on a half-chassis. The right side houses a microphone/handset well. The CA-2 assembly includes CMIC-1 microphone. ADDR Series doors with two-tier visibility are available for use with the CA-2 configuration: ADDR-B4, ADDR-C4, ADDR-D4 (below).

ADDR-B4: Two-tier-sized door designed for use with the CA-2 chassis configuration. ADDR Series doors are similar to CAB-4 Series "DR" doors, but a clear window sp ace exposes the top two tiers of the CAB-4 enclosure. Use an SBB-B4 backbox with the ADDR-B4.

ADDR-C4: Three-tier-sized door designed for use with the CA-2 chassis configuration. ADDR Series doors are similar to CAB-4 Series "DR" doors, but a clear window space exposes the top two tiers of the CAB-4 enclosure. Use an SBB-C4 backbox with the ADDR-C4.

ADDR-D4: Four-tier-sized door designed for use with the CA-2 chassis configuration. ADDR Series doors are similar to CAB-4 Series "DR" doors, but a clear window space exposes the top two tiers of the CAB-4 enclosure. Use an SBB-D4 backbox with the ADDR-D4.

DPA-1: Dress panel, used with the CA-1 chassis when configured with a DVC-EM, DVC-KD, and CMIC-1. DPA-2: Dress Panel used with the CA-2 chassis assembly.

DPA-1A4: Dress panel, used with the CA-1 chassis when the CMIC-1 is not used. Provides mounting options on right two bays for two ACS annunciators, or for blank plates.

ADP-4B: Annunciator dress plate. Mounts in rows 2, 3 or 4 of a CAB-4 series enclosure. Used with ACS series annunciators.

BMP-1: Blank module for unused module positions.

BP2-4: Battery plate, required.

CHS-4L: Low-profile four-position Chassis. Mounts two AA-30 amplifiers.

CHS-4N: Chassis for mounting up to four APS-6Rs.

CHS-6: Chassis used with the XP6 and XP10 Multi-Modules. Mounts up to six modules in any CAB-4 series row.





Page 6 of 7 www.protectwell.com



System Specifications

SYSTEM CAPACITY

- Intelligent Signaling Line Circuits...1 expandable to 10
- Intelligent detectors 159 per loop
- Addressable monitor/control modules .. 159 per loop
- Programmable software zones..... over 2000
- ACS annunciators per PTW-3300 (CPU)32 address x 64
 or 96 points

NOTE: The PTW-3300 (CPU) can support up to 96 annunciator address points per ACM-24AT/-48A.

SPECIFICATIONS

Primary Input Power:

- AMPS-24E: 240 VAC, 50/60 Hz, 2.25 A maximum.

DC Output:

- Main 24 VDC: Up to 5.0 A

- Aux 24 VDC: Up to 5.0 A
- 5 VDC: Up to 0.15 A.

Current draw (Standby/Alarm):

- PTW-3300D (CPU)board: 0.340 A.
- PTW-3300DND (CPU) board: 0.120 A.
- LCM-320: 0.130 A.
- LEM-320: 0.100 A.
- AMPS-24E*: 0.13 A.

(Draws power from secondary power source only.)

NOTE: See AMPS-24E Manual for a complete current draw calculation sheet and details of input and output values.

Battery charger range: 7 AH – 200 AH. Use separate cabinet for batteries over 26 AH.

Float Rate: 27.6 V.

SHIPPING WEIGHT

- PTW-3300D (CPU): 5.95 lb (2.70 kg).
- PTW-3300DND (CPU): 2.90 lb (1.32 kg).

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

• UL Listed: S24647.

- FM Approved.
- CCCF listed.

STANDARDS

The PTW-3300 complies with the following UL Standards and NFPA 72, International Building Code (IBC), and California Building Code (CBC) Fire Alarm Systems requirements:

- UL 864 .
- UL 1076 (Burglary).
- UL 2572 (Mass Notification Systems). (PTW-3300 version 20 or higher)
- LOCAL (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- AUXILIARY (Automatic, Manual and Waterflow) (requires TM-4).
- **REMOTE STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory) (requires TM-4).
- **PROPRIETARY** (Automatic, Manual, Waterflow and Sprinkler Supervisory). Not applicable for FM.
- EMERGENCY VOICE/ALARM.

OT, PSDN (Other Technologies, Packet-switched Data • Network).

- IBC 2012, IBC 2009, IBC 2006, IBC 2003, IBC 2000 (Seismic).
- CBC 2007 (Seismic).

SE-191010-C



Page 7 of 7 www.protectwell.com