

Description

The PTW2-3300 is an intelligent Fire Alarm Control Panel (FACP) modular designed for medium- to large-scale facilities where reliability is a priority and accurate fire detection and prompt alarm response and evacuation are critical to life safety. The FACP is expandable from 2 to 16 loops with a total capacity of 4,064 addresses. PTW2-3300 N+1 loop backup design offers uninterrupted fire emergency operation in case of any fault condition.

PTW2-3300 utilizes a 7" 800 x 480 color capacitive touch TFT LCD display to provide vital information to evacuation operators concerning a fire situation, fire progression and evacuation details. optional graphical workstation, LCD repeater and LED status indicator with or without push button operator interface modules are available on panel or on remote location are available for fire fighters' emergency operation.

PTW2-3300 consists built in memory to store fire, trouble and system events in different categories to facilities query during system maintenance and operation or fire event investigation. A total of 60,000 events historical record can be recorded and displayed when needed.

Adding a network card (fiber or wired) will allow a PTW2-3300 FACP to communicate with any other PTW2-3300 FACP, networked annunciator and graphical workstation (nodes) to form a networked system for large scales to extra large-scale facilities. The networked system operates as a true peer to peer system and can be configured in a ring style fault tolerant network. The networked system can be connected to 252 a maximum of nodes.

PTW2-3300 utilizes proprietary PTW protocol to connect with a suite of detection, monitoring and control devices to provide fast and accurate fire alarm detection and control. Automatic drift compensation filters out environmental and non-fire factors to provide accurate fire detection. Alarm signal response time meeting BS5839 18.2.e less than 3 second requirement.



Please see page 2 on the details of PTW2-3300 FACP.

see compatible equipment selection chart on page 3. Various system components can be referred to each individual product data sheet.

should there be any question, please feel free to reach out to us at www.protectwell.com

System Capacity

Loop Bus

No of Loop Cards: 8+1 (+1: optional for backup)

No of Loops per Card: 2

No of Loops per Panel: from 2 – 16 loops

Intelligent addressable devices per loop:

254 (for 300DSA Series) , 230 (for 600P Series)

Maximum number of addressable devices per system:

4064 (for 300DSA Series) , 3680 (for 600P Series)

Maximum loop distance: Twisted Unshielded Cable

16AWG - 1,500m or cable resistance <50 Ω

RS485 Bus

No of RS485 Bus: 1

Maximum RS485 Bus distance: Twisted Wire 1,000 m

16AWG

Maximum number of RS485 Bus Equipment: 126

Network

Networkable with addition of network card

Support a maximum of 32 nodes using wire cable or 252

nodes using single mode optic fiber cable

Maximum distance between nodes using (1) non-shielded twisted pair cable 1.5mm² is 800 m or (2) single mode optic fiber cable is 20 km.

Approval

Certified to

BS EN 54-2:1997+A1:2006

BS EN 54-4:1998+A1:2003+A2:2006

CCCF

Key Features

7" 800 x 480 color capacitive touch TFT LCD display

All operations are displayed in menu style, prompted throughout the process with human machine dialogue for the operator to grasp the fire situation accurately and promptly

Alarm and other related activated devices equipment type, address and loop details, alarm level, geographical location description and other information are available on screen

System LEDs and Buttons

13 built in LEDs are available to indicate status of the system including: -

Power, battery, fire alarm, trouble, signal silence, CPU failure, activate, delay, response, supervisory, point enabled, pre-alarm and test

8 built in buttons for quick operation for: -

NAC Evacuation, Manual/Auto, CBE, ack, test, signal silence, system reset, system summary

Event History Buffer

Total of 60,000 records of fire alarm, trouble and system event in different categories for easy query

Programing and software

Support programming of system on panel or via PC programming and commissioning tool (P-ICT2)

Software zones: 1,200 alarm zones, 1,200 control zones and 1,200 logic zones

Logic Equation: AND, OR, NOT EQU, T, TMR and etc

Electrical Specifications

AC Power Supply: 220 V AC +10% / -15% (50±1 Hz) 2 A

DC Output: 2, 24 V DC total 14 A (Only for internal using, includes charger)

Power Consumption: 350 W

Charge Current: maximum 2.5 A

Relay Output: 2 Programmable Fire / Fault Relays rated 3 A @ 24 VDC

Battery Capacity:

2 x 12VDC 22AH (maximum in panel)

Maximum 40 AH (maximum, external battery enclosure required)

Mechanical Specifications

Wall Mounted Cabinet Enclosure: Steel, IP30 and Red

Cabinet sizes (W x H x D) and weight

Size A: 440 mm x 506 mm x 222 mm and 17 Kg

Size B: 440 mm x 671 mm x 222 mm and 18 Kg

Size C: 440 mm x 806 mm x 222 mm and 19 Kg

Cable Entry (knock out): Top, left and right sides

Environmental Specifications

Operating Temperature: 0 – 50 °C

Operating Humidity: 5 – 95% RH (non-condensing)

Compatible Equipment Selection Chart



Panel Equipment	
CPU2-3300	Central Processing Unit, supports up to 16 loops ¹
DCP2-3300-EN	7" Touch Screen Display
MB2-3300	System Motherboard
LCM2-3300	Dual Loop Control Module
MPS2-3300	350W Intelligent Power Supply
GFD2-3300	Ground Detection Module (compulsory for EN compliance)
DP2-3300/R	Dress Plate, Blank, Red
POM2-3300	8 Circuits Control Module with feedback (compulsory for CCCF compliance)
SP-RMDIIDS	Micro Thermal Printer
SBB2-3300-A/R	A size Wall-Mounted Cabinet, Red
SBB2-3300-B/R	B size Wall-Mounted Cabinet, Red (CCCF only)
SBB2-3300/R	C size Wall-Mounted Cabinet, Red

RS485 Bus Equipment	
ACM2-3300-EN	Annunciator & Control Module, 16 Control and 32 Status LEDs
ACM2-32	Annunciator Module, 32 Programmable Tri-LEDs
LDM2-64	Lamp Driver Control Module, 64 Points
LDM2-32RL	Lamp Driver Relay Module, 32 Relay Output
LCD2-3300	Liquid Crystal Display Annunciator

Network Equipment	
HSNC2-3300	Network Card; Single Mode Fiber
TPNC2-3300	Network Card; Wire
PTW2-NCD-KIT-V8	Network Control Annunciator for PTW2-3300 System, including Fiber Network Card and Enclosure
PTW2-NCD-KIT-V10	Network Control Display for PTW2-3300 System, including wire Network Card and Enclosure
Proworkse V5	Proworkse Graphical Command Center, Software Only
NC2-3300-CB	Network Card Enclosure for Non-Panel Mount Application, Assembly including DC Power Input Charger
PDG-EM-AIO	Modbus Gateway; Provides a communication with third party, RJ45 internet connection
PDG-EM-AIO-IX	Modbus Gateway Adapter; RS232/RS485 internet connection

Compatible Equipment Selection Chart



Loop Bus Equipment - 300DSA Series	
PW-300DSA/E	Intelligent Point Type Photoelectric Smoke Detector
PW-300TRA/E	Intelligent Point Type Heat Detector
B300-A/E	Intelligent Detector Base
M300K-A/E	Addressable Manual Call Point with Built In Phone Jack
BM-3A/E	Addressable Manual Call Point Backbox
PMM-3A/E	Addressable Input Module
PCM-3A/E	Addressable 1 Input 1 Output Module
PMM-3AP/E	Addressable zone Monitor Module
FSA-3A/E	Addressable Fire Audible and Visual Alarm Device
PMM3AP-XP	Addressable zone Monitor Module with Isolator
PMM-3A/Min-XP	Addressable DIN-Rail Mini Switch Monitor Module with Isolator
PW-300STA-XP	Intelligent Point Type Smoke/Heat Multisensor Detector
BSL300-XP	Sounder Base
PW-300STA/E	Intelligent Point Type Smoke/Heat Multi-sensing Detector
BSL300-A-P/E	Sounder Base
PISO-3A/E	Isolator Module
LP300	Address Coder/Decoder Handhold Programmer

Loop Bus Equipment - 600P Series	
PW-600P	Intelligent Point Type Photoelectric Smoke Detector
PW-600T	Intelligent Point Type Heat Detector
P601	Intelligent Detector Base
PW-600DL	Intelligent Remote LED Indicator
PW-600TR	Intelligent Fixed + ROR Heat Detector
PMM-6	Addressable Input Module
PCM-6D	Addressable 1 Input 1 Output Module
PMM-6P	Addressable zone Monitor Module
PCM-6	Addressable Output Module
PISO-6	Isolator Module
M600K	Addressable Manual Call Point with Built In Phone Jack
M600AS	Addressable Fire Audible and Visual Alarm Device
P600BH	Sounder Base
CP600M	Address Coder/Decoder Handhold Programmer