

## Fire Alarm Panel

# PCD 2020 Master Controller

(PCD 2020 /+PA/+TB/+PATB/+G2/+DN)

Model: 2020 MC-ZD-64



ANISO9001: 2008COMPANY-

## INTRODUCTION

The PCD 2020 is an intelligent 'Zone' master/slave unit capable of communicating via Modbus protocol, with up to 32 slaves, each slave having 8 I/O zones. The Zone-master may also be accessed as a slave by an external master. The unit will be customized via user programmable parameters for (number of connected zones etc.). All settings are password protected. The unit maintains a real-time-clock (RTC) to log with time-stamp, to record the occurrence of important events.

## FUNCTIONS

The primary functions of the Zone-master are: Monitoring the health of the zones, and reporting errors to the user when necessary. In 'Remote (Repeater)' mode, monitoring the Master FAS commands from the external system bus and transmitting the FAS Control user commands to addressable detection and Switching modules. In 'Master' mode FAS Control commands from the user are transmitted to addressable detection and Switching modules. Reporting its own health and that of the slaves to the external Remote (Repeater). Monitoring its own power-supplies (Mains and UPS) and reporting their health via LEDs. Logging important events with time-stamp, such as Supply Failure, Sensor Failure, Outputs switched Command etc.



## USER INTERFACE

The unit interfaces with the user via: A 20 character by 4 line alphanumeric display 8 keys (SET, INC, DEC, ESC, L-TEST, SYS-RESET, SOUND ALARMS, SILENCE ALARM).

Note that the keys (except SET) also double up as numerical keys from 1 to 7, useful for password entry. 3 pushbuttons (Are user configurable for Functions related to the Application of the Installation). A key operated switch will disable operation at the keyboard to prevent unauthorized operations.

## PRODUCT CONFIGURATIONS

- PCD 2020 FD for Building Fire Alarm detection Control Panel. Max 64 Zones.
- PCD 2020 FDPA As above Control Panel. With Public Address system (PA) Max 64 Zones.
- PCD 2020 FDTB As above Control Panel. With Telephone type Talk back System (TB). Max 64 Zones.
- PCD 2020 FDPT As above Control Panel. With PA & TB. Max 64 Zones.
- PCD 2020 FDGR - Master Control for Local Fire detection with Gas release/ DV panel User configured.

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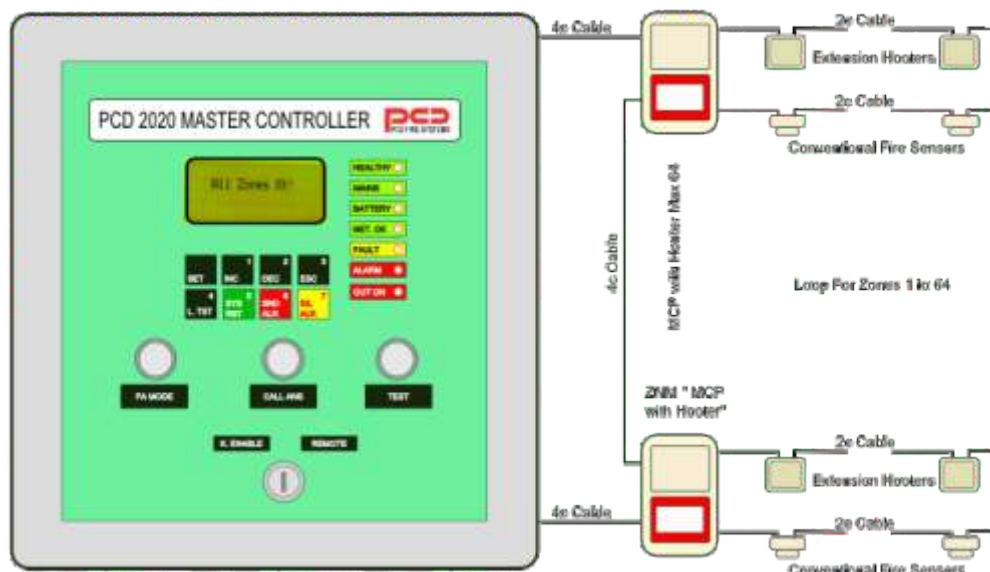
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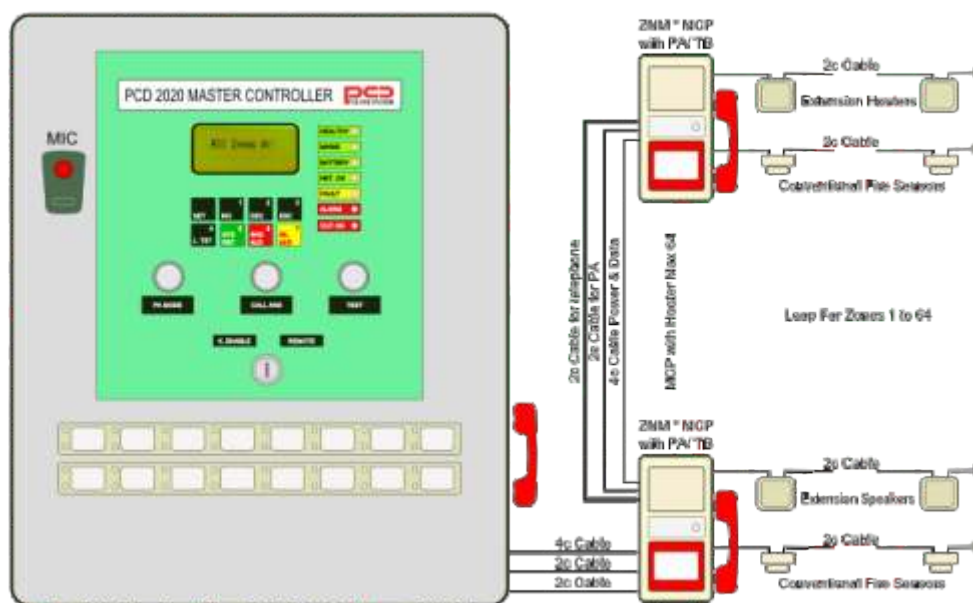
## PCD 2020 FD :

For Building Fire Alarm detection Control Panel. Max 64 Zones.



## PCD 2020 FDPA/ FDTB/ FDPT:

Fire detection with Public Address (PA) and Telephone type Talk back System Max 64 Zones.  
Available with either or Both Options.



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## PRODUCT SPECIFICATIONS

The PCD 2020 series of Panels are microprocessor based Fire alarm panel for address-able devices.

An installation consist of the following Products.

## MASTER CONTROLLER CARD

This Module has a Microcontroller with Non volatile ram, RS485 serial port, keyboard in-terface, 20 characters 4 line LCD interface 8 LED outputs, 3 relay outputs and 8 inputkeypad buttons and 3 metal push buttons, An SPI Input port, and two SPI serial Outputports.

It handles all the programming and non-programming features. Stores all Configurationinformation about the panel e.g. Devices, zone status etc., Maintains a 450 event log ofalarms and faults. This module is continuously communicating with ZMN Loop modules,and processing alarm and fault data. Alarm fault data is also sent to various IO con-nected to the system from this controller.

The System monitored by this Panel can be configured for

- Maximum 32 slave panels with 8 zones each. or 64 Slave panels of 2 zoneseach..
- The devices can be grouped to max 256 zones/ locations.
- Each Location can have an LED/ RELAY via an optional SPI output indication.
- A 20x4 Line LCD display and Keypad is the user interface to the panel.

## GENERAL DETAILS

The enclosure is constructed of 1.6mm mild steel and has a Paint finish of light GreyBaked Enamel. Each enclosure consists of the following. MS wall mounting cabinet., Main Door outer side with key switch, LED control displayand keypad. Main door inner side with master control PCB.Inner mounting componentback plate with terminal. Along with an SMPS to generate a system supply of 24v. Cable entry is via pre-formed 18mm knockouts located at the bottom of the enclosure.The Cabinet is a Wall mounting type. The enclosure is provided with suitable holes atthe Four Corners for fixing with 4 nos. 8-mm bolts

The panels operating keyboard is mounted on the door. A key Lock mounted on thedoor is provided to enable access only to authorize personal. Inside the panel is a component mounting tray, its fixed to the cabinet with four 8 mmbolts, On this tray the various modules as required by the panel are mounted. All mod-ules are fitted and interconnected to each other and the keyboard and displays on thedoor as required. The Terminals for connecting to power and field devices are alsoavailable on this plate and clearly labeled as required.

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## ELECTRICAL SPECIFICATIONS

Main Supply Voltage:	110V to 240V. AC., 50/60 Hz
Panel supply:	24V.DC
Repeater:	4 wires 1.5 Sq mm shielded. For RS-485 & Power. Max 1.2km
Common fault / Alarm relays:	Isolated change over contacts 3 Nos.
Audio Alarm:	Panel buzzer, mounted on the master controller PCB
Controls:	<b>SET-</b> To access the menu system for change the setting <b>INC</b> - To increment numerical values or selecting next option/parameter. <b>DEC</b> - To decrement numerical values or selecting previous option / parameter <b>ESC-</b> To exit programming mode, or reject on-screen messages. At the main screen, pressing it will take you to the zone status display <b>LAMP TEST-</b> Pressing this will switch on all LED indicators briefly <b>SYSTEM RESET</b> - When the reset button is operated all Latched Alarms and faults will be cleared. The Display LED's will switch on for a few seconds to perform an LED test. This event is recorded in the event log along with date and time. <b>SOUND ALARMS</b> - Use to restart Alarms which have been silenced or switch on alarms in other locations. <b>SILENCE ALARMS</b> - to silence all hooter outputs.
Indications	<b>HEALTHY (GREEN LED)-</b> When all systems are OK. <b>MAINS (BLUE LED)</b> - When 230V/110v supply is given to the panel this LED will be ON. <b>BATTERY (BLUE LED)-</b> When 24V Battery supply is given to the panel this LED will be ON. <b>COM. OK (BLUE LED)-</b> indicates communication is OK or NOT <b>FAULT (YELLOW LED)</b> - It will indicate system is in fault condition. <b>FIRE ALARM. (RED LED)</b> - It will indicate that system is in alarm condition. <b>OUTPUT ON (RED LED)</b> - Will indicate when an alarm related output is switched ON. <b>REMOTE / LOCAL:</b> to indicate if Panel interface is active or disabled.

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