



Mictron 900 Miroprocessor Based Multiplex Fire Alarm System

MICTRON 900 is a fully Malaysia designed and produced panel. It's simple design, specially suited for local environment, meets local requirements and ensure that commissioning, maintenance and system operation can normally be carried out by semi-skilled personnel.

SYSTEM DESCRIPTION:

A typical MICTRON 900 system consists of 2 buses. Each bus can interface up to 16 digital sub-panels (RPPU).

Main Fire Alarm Panel (MFAP)

This is the central controller whereby all the information are processed for visual display on the LCD panel, LED zone display panels and Mimic panel.

Warning audio signals are activated to alert the guard and building occupants. An event logging printer is also provided for hard copy record of the alarm complete with date / time, zone and alarm location details.

The user friendly operator keyboard at the MFAP allows authorized personnel to disable or reset any incoming alarm.

Customized LED Display Panels (M900-DP)

Consists of visual indicators (LEDs) of fire zone, status indications, control output and sounder points. Operator can easily identify location of all fire events through this display panels.

Customized Multi-Colour Mimic Panel (M900-Mimic)

Consists of all floor plans and section of building printed on perspex sheet with LEDs on the mimic floor plans to indicate location of each fire zone.

Digital Sub-panel -RPPU (Remote Programmable Processing Unit)

A RPPU is a distributed data gathering panel. All the external devices such as breakglasses, flow switches, smoke detectors, status indications, control output points and bell points are connected to the RPPU.

The microprocessor in the RPPU will convert the data into serial format and communicate with the MFAP via standard computer data cable.

A standard RPPU can interface up to :- 32 input points (alarm zones or status points), 3 bell zones and 5 control output points.

A mini-size RPPU can interface up to :-12 input points (alarm zone or status points), 2 bell zones and 2 control output points.

Depending on building zoning layout, each RPPU can be used to serve several floors.

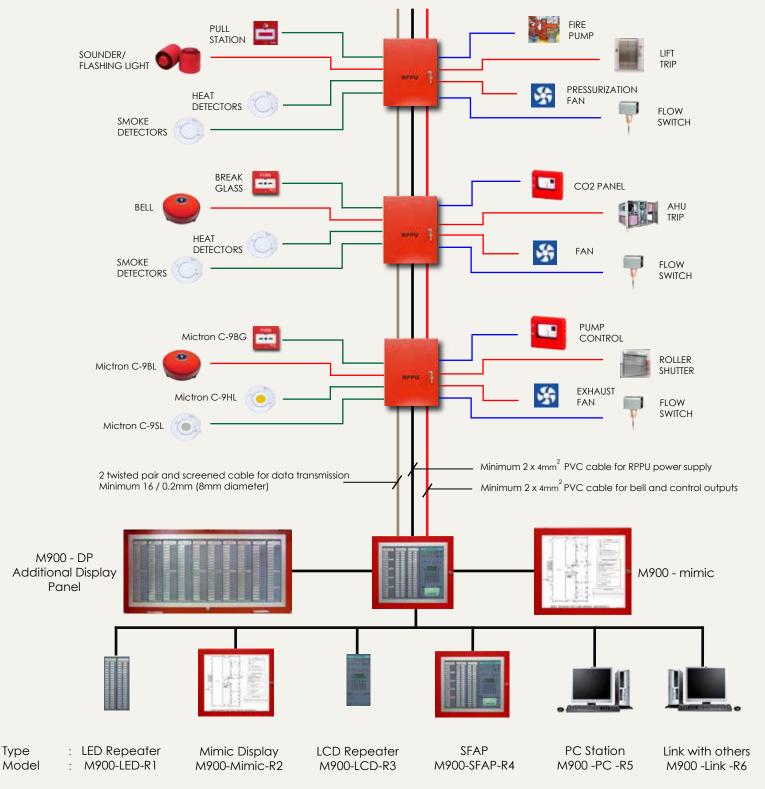
Interlinking Capability:

Integration between MFAP and other sub-system can be achieved through 2 twisted pair of data cable or other medium.

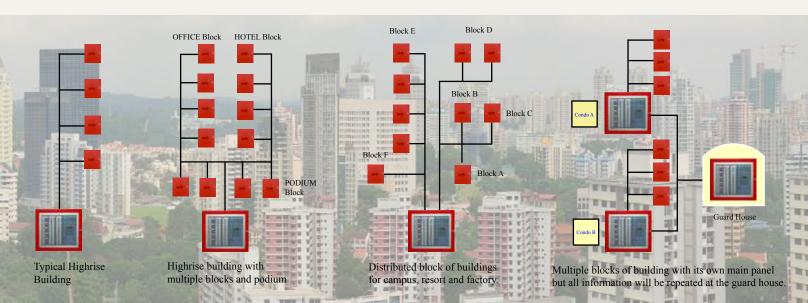
The sub-system can be a full repeater or just a simple LCD display with basic control functions.

High level integration to other building services system can also be achieved by RS-232 serial communication, with protocol provided upon request.

Various converters or modems are available to convert RS-232 for optical fiber, Ethernet (TCP/IP) or WIFI communication.



Depending on the distance of the field devices to the RPPU, and the RPPU looping cable to the MFAP, the wire size may vary, refer to actual project schematic drawing for verification.





Main Fire Alarm Panel

Manufacturer : Micro-CTL Electronics Sdn. Bhd.

Brand : Mictron Model 900 Part Number : MP-M900

Microprocessor : Freescale MC9S12 & Rabbitcore 2000

Memory : 512Kb Flash & 64Kb RAM

Ports : 2 RS232 & 2 Multidrop RS485 & 2 parallel

Fire Brigade Link : Volt - free contact :24V DC 150mA Power Consumption Operating Temperature :0°C-45°C

: Max 95% (non-condensation) **Humidity** Panel Construction : Mild steel/1.6mm thickness Finishing : Epoxy powder coated paint

Colour :Red

:600 (w) x530 (H) x 180 (D) Dimension (mm) : 30kg (inclusive of 2 x 12V battery) Weiaht Testing Standard : MS1745 Part2: 2004

: EN 54 Part2: 2004 : 2014EEB0212, SIRIM Test Report Printer Type : Impact Dot Matrix Print width : 40 characters/line

Printer Interface : RS232 serial : 57.5mm white paper roll Print Paper

Manufacturer

Power Supply & Charger

Part Number (excl. battery): MP-9PS

Input AC voltage : 220V-240VAC 50Hz

Type : Constant Voltage and Current Maximum Output Voltage: 27.5VDC

Maximum Output Current: 7A

: AC on, CPU on, RPPU on & Bell on Power switches

Battery

: MSB / GP Manufacturer



Display Panel

Part Number : M900 - DP Operating Temperature :0°C-45°C

Humidity : Max 95% (non-condensation) Panel Construction : Perspex sheet on aluminium panel Panel Colour : Light grey/blue/black lettering Enclosure Construction : Mild steel/1.6mm thickness **Enclosure Finishing** : Epoxy powder coated paint

Colour : Red : Customized Dimension



32 or

8

4

3

3

: 5





Digital Sub - Panel (RPPU)

Model : RPPU- 32 : M900-RPPU-ALL(32) Part Number :MCP-9R3B Zone module card Termination module card : MCP-9R/T : 32 or Capacity inputs (zone/status) bell outputs

control outputs Power Concumption Zone alarm current Operating temperature Operating humidity **Enclosure Construction**

Finishing Colour

Dimensions (mm)



RPPU-12

M900-RPPU-ALL(12) MCP-9R3B MCP-9R/T3

20V - 32V DC, 20mA 10mA 0 - 45 degree C 5% - 95% (non-condensation)

Mild Steel/ 1.2mm thickness Epoxy powder coated paint

Red as standard 300(W) x 380(H) x128(D) : 356(W) x 548(H) x128(D)



Power Supply & Charger for RPPU

Model Part Number Maximum Output Current Input AC voltage

Type

Maximum Output Voltage Operating temperature Operating humidity Enclosure Construction

Finishing Colour

Battery (unknown AH) Dimensions (mm)

: MPS-10A

EXTCHG10A-ALL : 10A

> 220V - 240V AC 50Hz Constant Voltage and Current 27.5V DC

0 - 45 degree C 5% - 95% (non-condensation) Mild Steel/ 1.2mm thickness Epoxy powder coated paint Red as standard

:Built in space for 24VDC 7AH sealed lead acid battery (excluded)

: 356(W) x 410(H) x150(D)

356(W) x 255(H) x 128(D)

MPS-2A

EXTCHG1A2-ALL

2A



Mimic Display Model

: M900 - Mimic Material : Multicolour mimic on perspex

with alarm LED :0°C-45°C

Operating Temperature . Humidity : Max 95% (non-condensation)

Enclosure Construction : Mild steel/1.6mm thickness **Enclosure Finishing** : Epoxy powder coated paint Colour :Red

Dimension : Customized



Type LED Repeater Used For

M900-LED-R1 LED to show alarm status

No

2km

M900-Mimic-R2 Multicolour mimic on perspex with alam LED

No

2km

Mimic Repeater

LCD Repeater M900-LCD-R3 LCD to show alarm

status

No

2km

 $2 \text{ twisted pair } 7 \times 0.2 \text{mm} \text{ (4x 1.3 mm-sq)} \text{ and screened}$

SFAP M900-SFAP-R4 Panel linking to show each other's

information

PC Station M900-PC-R5 Windows based real time software to show floor plans

240V AC (with UPS)

Yes

Link with other M900-Link-R6

No

Optical Fiber Interface M900-OF

Link with other system by RS232 or volt free relay

Link with repeater or other system by optical fiber.

Power Supply

Local Control

Function

Maximum

Cable Type

Distance

24V DC or external PSU and battery power by 240V AC

24V DC or 240V AC (with internal battery)

Yes

2km

100ft

Other available Products:









