

TECHNICAL SPECIFICATION

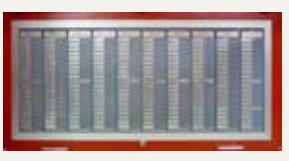


Main Fire Alarm Panel
 Manufacturer : Micro-CTL Electronics Sdn. Bhd.
 Brand : Mictron
 Model : 900
 Part Number : MP-M900
 Microprocessor : Freescale MC9S12 & Rabbitcore 2000
 Memory : 512Kb Flash & 64Kb RAM
 Ports : 2 RS232 & 2 Multiplex RS485 & 2 parallel
 Fire Brigade Link : Volt - free contact
 Power Consumption : 24V DC 150mA
 Operating Temperature : 0°C - 45°C
 Humidity : Max 95% (non-condensation)
 Panel Construction : Mild steel/1.6mm thickness
 Finishing : Epoxy powder coated paint
 Colour : Red
 Dimension (mm) : 600 (w) x 530 (H) x 180 (D)
 Weight : 30kg (inclusive of 2 x 12V battery)
 Testing Standard : MS1745 Part2 : 2004
 EN 54 Part2 : 2004
 Test Report : 2014EEB0212, SIRIM

Printer Type : Impact Dot Matrix
 Print width : 40 characters/line
 Printer Interface : RS232 serial
 Print Paper : 57.5mm white paper roll
 Manufacturer : SPRT

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

Battery
 Manufacturer : MSB / GP

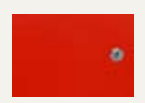


Display Panel
 Part Number : M900 - DP
 Operating Temperature : 0°C - 45°C
 Humidity : Max 95% (non-condensation)
 Panel Construction : Perspex sheet on aluminium panel
 Panel Colour : Light grey/blue/black lettering
 Enclosure Construction : Mild steel/1.6mm thickness
 Enclosure Finishing : Epoxy powder coated paint
 Colour : Red
 Dimension : Customized



Digital Sub - Panel (RPPU)

Model	: RPPU - 32	RPPU - 12
Part Number	: M900-RPPU-ALL(32)	M900-RPPU-ALL(12)
Zone module card	: MCP-9R3B	MCP-9R3B
Termination module card	: MCP-9R/T	MCP-9R/T3
Capacity inputs (zone / status)	: 32 or 32 or 27	12
bell outputs	: 3 3 8	2
control outputs	: 5 9 4	2
Power Consumption	: 20V - 32V DC, 20mA	
Zone alarm current	: 10mA	
Operating temperature	: 0 - 45 degree C	
Operating humidity	: 5% - 95% (non-condensation)	
Enclosure Construction	: Mild Steel/ 1.2mm thickness	
Finishing	: Epoxy powder coated paint	
Colour	: Red as standard	
Dimensions (mm)	: 356(W) x 548(H) x 128(D)	300(W) x 380(H) x 128(D)



Power Supply & Charger for RPPU

Model	: MPS-10A	MPS-2A
Part Number	: EXTCHG10A-ALL	EXTCHG1A2-ALL
Maximum Output Current	: 10A	2A
Input AC voltage	: 220V - 240V AC 50Hz	
Type	: Constant Voltage and Current	
Maximum Output Voltage	: 27.5V DC	
Operating temperature	: 0 - 45 degree C	
Operating humidity	: 5% - 95% (non-condensation)	
Enclosure Construction	: Mild Steel/ 1.2mm thickness	
Finishing	: Epoxy powder coated paint	
Colour	: Red as standard	
Battery (unknown AH)	: Built in space for 24VDC 7AH sealed lead acid battery (excluded)	
Dimensions (mm)	: 356(W) x 410(H) x 150(D)	356(W) x 255(H) x 128(D)



Mimic Display
 Model : M900 - Mimic
 Material : Multicolour mimic on perspex with alarm LED
 Operating Temperature : 0°C - 45°C
 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	Mimic Repeater	LCD Repeater	SFAP	PC Station	Link with other	Optical Fiber Interface
Model	: M900-LED-R1	M900-Mimic-R2	M900-LCD-R3	M900-SFAP-R4	M900-PC-R5	M900-Link-R6	M900-OF
Used For	: LED to show alarm status	Multicolour mimic on perspex with alarm LED	LCD to show alarm status	Panel linking to show each other's information	Windows based real time software to show floor plans	Link with other system by RS232 or volt free relay	Link with repeater or other system by optical fiber.
Local Control Function	: No	No	No	Yes	Yes	No	
Power Supply	: 24V DC or external PSU and battery power by 240V AC			: 24V DC or 240V AC (with internal battery)	: 240V AC (with UPS)	-	
Maximum Distance	: 2km	2km	2km	2km	100ft	-	
Cable Type	: 2 twisted pair 7 x 0.2mm (4 x 1.3mm - sq) and screened						

Other available Products:



MICRO-CTL AUTOMATION SDN. BHD. (457153-X)
 No.3, Jalan SS13/6A, Subang Jaya Industrial Estate,
 47500 Selangor Darul Ehsan, Malaysia.
 Tel: 006-03 5633 4993 Fax: 006-03 5636 1117
 E-mail: sales@micro-ctl.com www.micro-ctl.com
 Micro-CTL reserves the right to alter specification of its product from time to time without notice.



The COST EFFECTIVE choice from an ESTABLISHED local manufacturer For MAXIMUM Reliability & speedy SERVICE



Made in Malaysia

MS1745 EN54



MICTRON 900 FIRE ALARM SYSTEM

Microprocessor based Multiplex technology



System Features

3 years system warranty

10 years parts availability

Affordable total system cost

> 1000 system installed

Flexible system expansion

Simple system operation

Ample ex-stock spare parts

Reasonable charge on servicing

Short commissioning period

Made for Malaysia environment

Zone LED for Alarm, Fault & Disable

Compatible to all conventional sensors

Built-in 40 column printer

Un-limited mimic LED indications

Superb interlinking capability

Customized repeater display or mimic

Serial RS-232 communication output

Optical fiber or wifi linking

Common TCP/IP network

Mictron 900 Microprocessor 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)

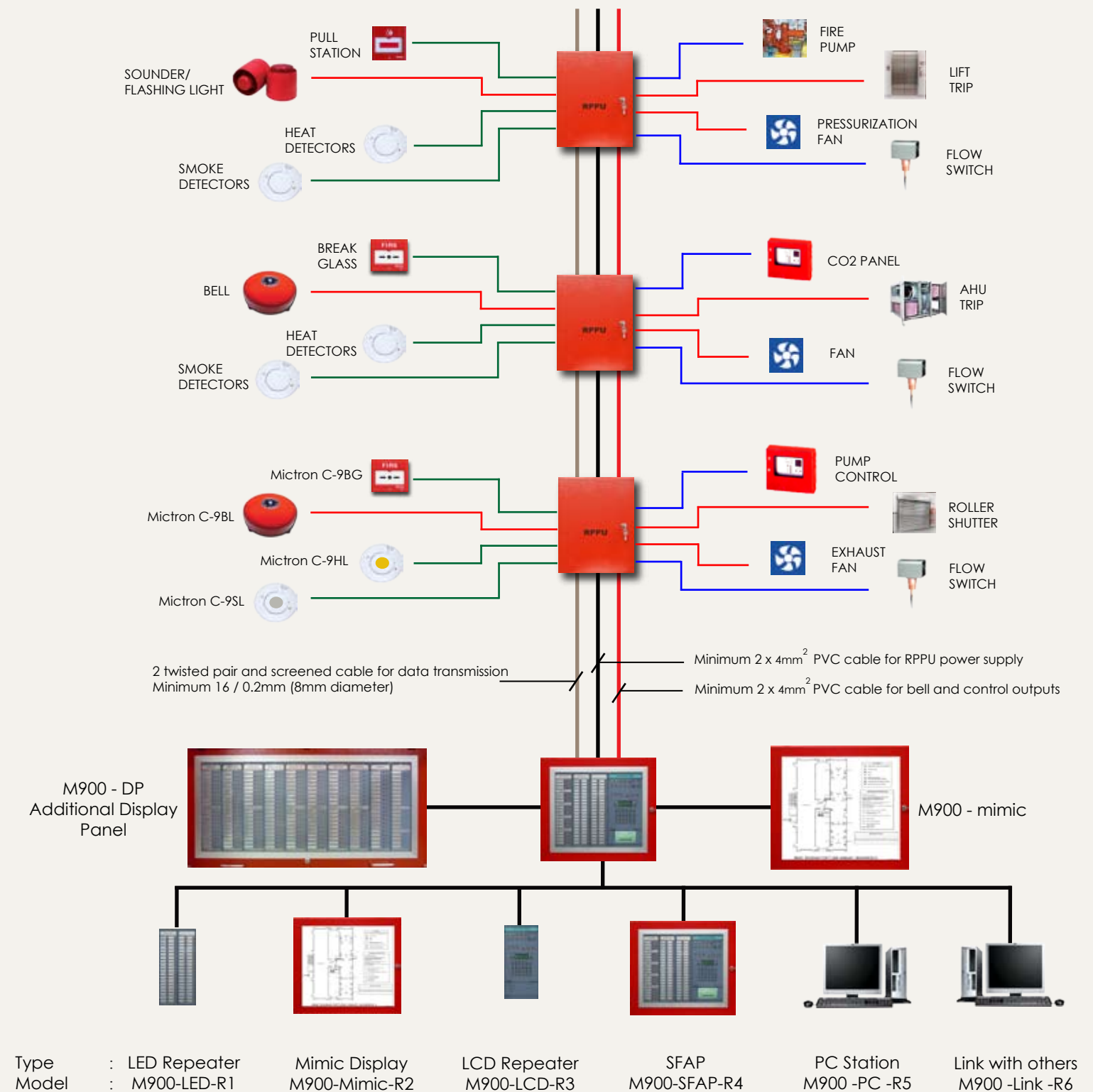
A RPPU is a distributed data gathering panel. All the external devices such as breakglasses, flow switches, smoke detectors, status indications, control output points and bell points are connected to the RPPU.

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.



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.

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.

