TECHNICAL SPECIFICATIONS





Main Fire Alarm Panel

: Micro-CTL Electronics Sdn. Bhd. Manufacturer : Mictron Brand

Model : 9900 : AXP-M9900 Part Number :0°C - 45°C Operating Temperature

: Max 95% (non-condensation) Humidity : Mild steel/1.5mm thickness Panel Construction Finishina : Epoxy powder coated paint

Colour : Light gray or red

Dimension : 720mm (W) 430mm (H) 150mm (D) Weight : 18.6kg (exclude battery)

: MS1745 Part2: 2004 Testing Standard : EN 54 Part2: 2004 **Test Report** : 2014EEB0449, SIRIM

Power Supply & Charger

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

: 220V-240VAC 50Hz Input AC voltage : Constant Voltage and Current

Type Maximum Output Voltage: 27.5VDC

Maximum Output Current: 10A

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

Smoke Detector

· Series AX

: 17-28V DC

: Infrared

: ABS

· White

: Photoelectric

: 0.9-0.14 dB/m

: 95% RH(Non cond)

: 150g with base

: AX-9SL

:500uA

· 4mA

Heat Detector

Series AX

17-28V DC

Thermistor

-10 to 50°C

ROR & Fixed Temperature

57°C fixed temperature

95% RH(Non cond)

0845-CPD-232.1621

150g with base

AX-9HL

500uA

4mA

: 2mA (Open collector) 2mA (Open collector)

: 100 X 46(D) with base 100 X 46(D) with base

White

EN54-5, DIFT

<u>Battery</u>

Series AX **Detectors &** Devices

Model

Type

Part Number

Alarm Current

Sensor Source

Output Driver

Dimension(mm)

Sensitivity

Weight

Colour

Material

Quiescent Current

Operating Voltage

Operating Humidity

Manufacturer : MSB/GP P1: System Control Display

Part Number : AXD-9SC

Display Panel Size : 179mm(W) 325mm(H) Material

Feature : 1 x Graphics LCD (128 x 64 pixel)

4 x Auxiliary output 24VDC 2 x RS232 serial communication

Operating voltage : 20 - 28VDC Operating current : 140mA

P2: Fire Zone Display

: AXD-9FZ Part Number Display Panel Size : 179mm(W) 325mm(H)

Material : ABS

:7 x Alphanumeric LCD (16 x2) Feature

Operating voltage : 20 - 28VDC Operating current :6mA

P3: Information Display

Part Number : AXD-9PT

: 179mm(W) 325mm(H) Display Panel Size

Material : ABS

: Optional space for panel printer Feature

Loop Cotroller Module

Maximum devices

Breakglass

18-28V DC

-20 to 70°C

88 X 88 X 59

Signal Red

MS1745-11, SIRIM

140g

ABS

Non Resettable

95% RH(Non cond)

Series AX

AX-9BG

500uA

1.3mA

: AXM-9LC Part Number Feature : 2 loops per card

Communication method : Meter Bus : 20 - 28VDC Operating voltage Operating current : 44mA : 20 - 27VDC Output Loop voltage Maximum loop current : 300mA per loop

Maximum loop wire length: 1.2KM (un-twisted pair) 2.0KM (twisted pair)

Type of loop wire PVC insulated cable 1.5mm²

: 126 per loop

: 89mm (W) 64mm (H) Dimension

Isolator

Input only Series AX Series AX AXM-1ZV-B AX-9SCi 1mA (+1.5mA FS Zone) 1mA (Not Zone input) 30uA 2mA 20-28V DC 17-28V DC Resettable

1 Zone & 3 input (or 4 status input)

0 to 50°C -20 to 70°C 95% RH(Non cond) 95% RH(Non cond)

180g with enclosure 25g

ABS ABS 110 X 110 X 55

Light Grey White

EN54-18, SIRIM 2008EL0773, SIRIM

100 X 20 with base

Typical Operating Current

Approved Standard: EN54-7, DIFT

Certificate Number: 0845-CPD-232.1620

Temperature Range :-10 to 50°C

(without detectors or devices)

(with 126 smoke detectors/loop)

Туре	2 loops	4 loops	6 loops	8 loops	10 loops	12 loops	14 loops	16 loops
Total loop controller card	1	2	3	4	5	6	7	8
Loop controller current (mA)	44	88	132	176	220	264	308	352
AXD-9SC & AXD-9FZ (mA)	140 + 6 = 146							
Total current (mA)	190.0	234.0	278.0	322.0	366.0	410.0	454.0	498.0
Total current (mA)	316.0	486.0	656.0	826.0	996.0	1166.0	1336.0	1506.0

Input/Output

AXM-1ZV-A

20-28V DC

0 to 50°C

500mA

ABS

2014EEB0276, SIRIM 2008EL0773, SIRIM

1.5mA (output on)

1 Zone & 1 Output

(or 1 input/1 output)

95% RH(Non cond)

180g with enclosure

110 X 110 X 55

EN54-18, SIRIM

Red & Light Grey

Series AX

Ordering Detail: AXP-M9900 - _____ - ____ G - Grey 2,4,6,8,10,12,14,16 loops



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MICTRON 9900 FIRE ALARM SYSTEM

Mictron 9900 is a fire alarm control & monitoring system suitable for simple to complex installations. Its modular design can interface up to 16 loops in a single cabinet.

Each loop can interface up to 126 devices with combination of input / output modules, smoke detectors, heat detectors and breakglasses.

A 128 x 64 graphic LCD with keypad arranged in "ATM format" is used for operator interface.

Fire zone information is displayed on a separate panel with 7 units of LCD. The user will be able to select the status to be displayed by using the scroll key.



1 2 3 10 88 126 ANALOGUE ADDRESSABLE



MS1745 EN54







- From 2 loops to 16 loops, with 126 devices per loop.
- Selectable hard or soft addressing of devices.
- Fully monitored loops for integrity and surge protection.
- Multi access levels with password protection.



- Programmable up to 600 fire zones & 600 un-supervised input points.
- 1000 alarm log & 400 general fault or disabled log.
- System Control Display panel with graphic LCD and backlight.
- Built-in 10A power supply & charger with surge suppressor.



- Fire Zone Display panel with 7 alphanumeric LCD (16 x 2) to display zone location.
- Functions for zone display by scrolling up & down or view page by page.
- Selectable zone condition view All Zone, Alarm, Fault, Disable & Test functions.
- 128 programmable sounder and input/output groups (64 devices/group).

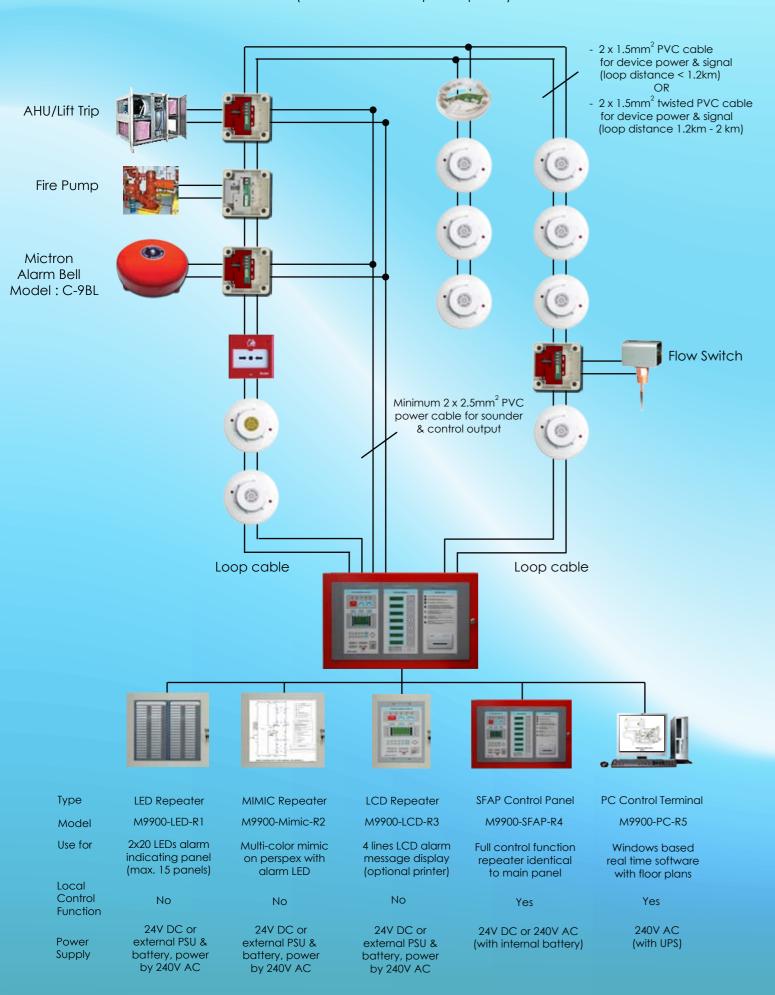


- Optional repeater/sub-panel or printer interface.
- Optional windows based PC graphics software.
- RS232 serial communication with other building systems.
- Optional optical fiber, WiFi or telecom line interface by modems.





Mictron 9900 Analogue Addressable Fire Alarm System Schematic Diagram (Maximum devices per loop: 126)





PHOTOELECTRIC SMOKE DETECTOR MODEL: AX-9SL

FIXED TEMPERATURE & ROR HEAT DETECTOR MODEL: AX-9HL

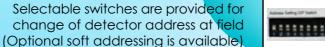




Built-in remote LED (Light Emitting Diode) driver

with main panel is established Selectable switches are provided for

The LED will be flashing if communication



(0)



Common Features



Polarity insensitive for easy wiring unless wired to isolator base

Unique smoke sensing chamber, with stainless steel wrap-around wire mesh for protection against dirt, dust and flying insect





Electronic thermistor sensor is used for long term accuracy & reliability





Smoke density analogue value for normal, pre-alarm & alarm condition

Heat detector analogue value for normal and alarm condition



1 ZONE + 1 CONTROL OUTPUT OR 1 STATUS INPUT +1 CONTROL OUTPUT MODULE **MODEL: AXM-1ZV-A**





EN 54-5 DIFT 🥰

Small & compact design for easy installation



EN 54-18 Common Features

Designed for 4 unsupervised inputs or 1 supervised input & 1 output

Housed in a robust casing for added protection, suitable for indoor & outdoor installation



Using latest technology to offer high reliability at competitive price

Suitable for 1 sounder/control output and 1 flow switch zone input



Suitable for pump monitoring, CO₂ panel, valve input as well as 1 zone input



SHORT CIRCUIT LOOP ISOLATOR MODEL: AX-9SCi





Loop wire short circuit isolator design for loop controller AXM-9LC

Low current with external fault LED if the



ISOLATOR 0

The LED will be turned on by the panel if the breakglass is activated



Unique ALARM/RESET test tool for easy maintainance



PORTABLE TESTER

isolator is activated

The portable tester is used to set the address of the AX detectors & devices (soft addressing), it is power by AC adaptor or battery. The tester can also be used to read the status of the detector or device & show on its LCD, as well as control the LED or the output.