TECHNICAL SPECIFICATIONS



Manufacturer Brand Model Part Number Power Consumption Operating Temperature

MAIN PANEL

Operating Humidity Panel Construction Panel Thickness Finishing Colour

Testing Standard Test Report

Model

Material

Thickness

Finishing

Colour



Dimension Capacity Zone Card Part Number Zone module card Termination module card Power Consumption Max. Distance to Main Panel Operating Temperature Operating Humidity

Model

Handset Material

Constant Rating

Handset Colour

Transmitter



Impedance Box Material Box Colour Box Thickness Box Finishing



: 0 - 45 degree C : 5% to 95% (Non-condensation) Mild Steel 1.2 - 1.5mm Epoxy powder coat paint Red MS1745 Part2:2004 EN 54 Part2:2004 2011EL0096 & 2011EMC014 SIRIM **DIGITAL SUB-PANEL (RTTU)**

Mictron 800

MAR-MP

24V DC 150mA

Micro-CTL Electronics Sdn.Bhd

RTTU (Remote Telephone Terminal Unit) Mild Steel 0.9mm Epoxy powder coated paint Red 400 (H) x 350 (W) x 80mm (D) : 10 maximum : M800-RTTU-ALL MCP-8ZRV MCP-8RT 20mA or 0.6w, 22-32 volts DC 2km (wires as shown in schematic) 0 - 50 degree C 5% to 95% (Non-condensation)

REMOTE FIREMAN INTERCOM STATION (RFIS)

M8-RFIS High Impact Thermoplastic Red :24V DC 1A : Condenser mic. : Dynamic 150 ohms 2km (2 x 1.5 PVC cable) 0 - 50 degree C 5% to 95% (Non-condensation) Mild Steel : Red : 0.9 - 1.2mm : Epoxy powder coat paint : 356mm (W) x 172mm (H) x 80mm (D) Surface Mount (M8-BC-S) (362mm (W) x 178mm (H)) Flush Mount (M8-BC-F) (380mm (W) x 196mm (H))

: M800-Mimic

Mild Steel

: 1.2 - 1.5mm

: Customized

: M800-SFIP

: Mild Steel

1.2 - 1.5mm

: Red : Customized

: 0-45 degree C

: 2 km

with alarm LED

Multicolour mimic on perspex

: 0 - 45 degree C : 5% to 95% (non-condensation)

: Epoxy powder coated paint : Red

5% to 95% (non-condensation)

: Epoxy powder coated paint

MIMIC DISPLAY Model

Material Operating Temperature Operating Humidity Enclosure Construction Enclosure Thickness Enclosure Finishing Colour Dimension

SUB-PANEL

Maximum Distance

Operating Humidity

Panel Construction Panel Thickness

Operating Temperature

Model

Finishing

Colour

Dimension





Other available Products:

PC Station Model Operating System MFIP Interface User Interface Maximum Display

Maximum Users

Features

M800-PC-R1 : Windows XP, 7 or higher : RS232 serial communication : Graphical User Interface (GUI) 99 display panel : 99 graphical floor plans 16 with password Automatic display calling intercom Zone indication on floor plan

BATTERY CHARGER

Model Charger Type Input Voltage Charging Voltage (output voltage) Ripple & Noise Operating Temperature Operating Humidity

Constant voltage 240V AC ±10% 50Hz 27.5V DC 1.2A 100mV (RMS) maximum : 0 - 50 degree C : 5% to 95% (Non-condensation)

Micrprocessor based

1 serial & 2 parallel

Keyboard with 16 keys

22-32V DC, 50mA or 1.5W

Perspex on aluminium

0 - 50 degree C

16 x 1 Alphanumeric LCD Display LED for system fault, AC on/fail

DC on, Charger fail & Battery low Voltmeter 0-30V DC

Light grey/light blue/black labelling 400mm (W) x 90mm (H) x 30mm (D)

5% to 95% (Non-condensation)

Freescale MC68HC05/08 8K byte EPROM

: MCPS-8

M8P- CPU

2K byte RAM

SYSTEM STATUS PANEL

Panel Model Type Model Memory I/O port

Operator Interface Trouble Indications

Type of meter Power Consumption Panel Construction Panel Colour Panel Dimension Operating Temperature Operating Humidity

INTERCOM STATUS PANEL

Panel Model Capacity Per-panel Indication

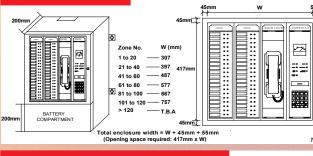
Power Consumption(20 zones) Panel Construction Panel Colour Panel Dimension Operating Temperature **Operating Humidity**

MASTER HANDSET PANEL

Panel Model Handset Materia Handset Colour Constant Rating Transmitter Receiver Impedance Panel Construction

Panel Colour Panel Dimension Operating Temperature Operating Humidity

MAIN PANEL DIMENSIONS



TIC BASE

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THE ULTIMATE CHOICE WITH **UNCOMPROMISING FEATURES**

MICTRON 800 MULTIPLEX FIREMAN INTERCOM SYSTEM

M8P-MH High Impact Thermoplastic : Red : 24V DC1A : Condenser mic : Dynamic 150 ohms Perspex on aluminium (surface panel) Mild-steel (flush panel) : Light grey/light blue / black labelling : 400mm (W) x 90mm (H) x 30mm (D)

: 5% to 95% (Non-condensation)

: MCP-8ZRV

10 zones

: MCP-8R1

: MCP-8ZT

: 0 - 50 degree C : 5% to 95% (Non - condensation)

Intelligent buildings Apartment Commercial complexes High rises Hospitals / Medical centres Distributed blocks of buildings





Maximum 20 zones CALL - Red | FD FAULT - Amber LED : Zone card model Capacity Wiring card model LED card model : M : 22-32V DC, 20mA or 0.6W : Perspex on aluminium (1.4+1.4mm thick) : Light grey/light blue/black labelling : 400mm (W) x 90mm (H) x 30mm (D) : 0 - 50 degree C

: M8P- DP Zone card Construction

REMOTE FIREMAN INTERCOM STATION DETAILS

N.T.

N.T.S



THEFT





MICTRON 800 MULTIPLEX FIREMAN INTERCOM SYSTEM

The Mictron 800 Microprocessor-Based Multiplex Fireman Intercom System is a result of the advanced technologies available today & uses the latest single chip microprocessor. It provides features which are beyond the capability of the conventional 2-way communication system.

Digital Sub-Panel RTTU (Remote Telephone Terminal Unit) A RTTU is a distributed data gathering panel. All the external remote handsets are connected to the RTTU.

The microprocessor in the RTTU will convert the data into serial format and communicate with the Main Fireman Intercom Panel (MFIP) via standard data cable.

A standard RTTU can interface up to 10 Remote Fireman Intercom Station (RFIS).

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

A standard Mictron 800 is a 2-BUS system, each BUS allows up to 32 RTTU. However, an extension can be added to increase the BUS to 4 with maximum of 128 RTTU & 1280 zones.

The distributed configuration (Multiplex Technique) of the sub-panel (RTTU) in Mictron 800 offers the ultimate solution in terms of wire saving, reduces installation cost and easy maintenance work.

Optional Multi-Colour Mimic Panel (M800-Mimic)

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

Interlinking Capability :

Integration between main panel 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 panel for the master handsets in different control room to communicate with each other.

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

Why Mictron 800 is Preferred :-

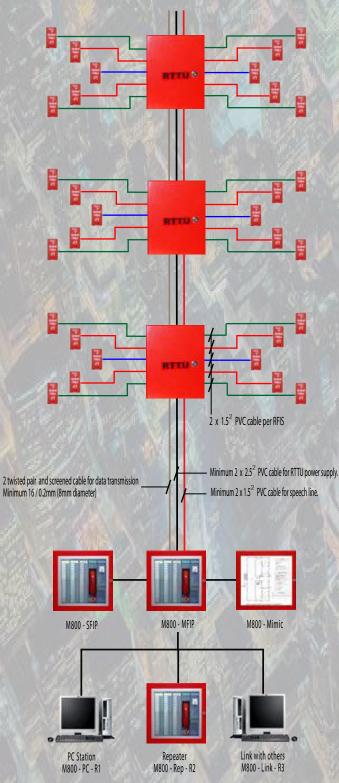
- Its excellent features.
- Its competitive pricing.
- Easy availability of parts.
- Reliable and well-trained support team to provide after sales service.
- Free in-house training on trouble-shooting is available upon request.

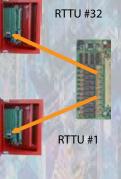


No extra wiring. All wirings from remote handsets are pulled to nearest sub-panel (RTTU). Looping from Mictron 800 to sub-panel (RTTU) consists of 4 data cables, 2 speech cables and 2 power supply cables only.

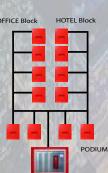
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No extra labour. All the numbering details at the termination cards of RTTU enable each cable to be easily identified for tracing wirings so as to save on labour time.

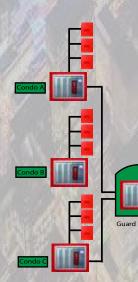








Block B Block B Block A Block A



Parts Interchangeability

No Address setting is required for RTTU module. The address is set on the wire termination module. To replace the faulty RTTU, just un-plug the faulty card & plug in a new card.

A typical highrise building will require each RTTU to serve several floors. A straight forward wiring configuration is required for looping RTTU to RTTU and back to main control panel.

For highrise buildings with different blocks of configuration, RTTU will be installed at strategic locations to serve various floors, interconnection of RTTU can be directly pulled back to master control panel or tee-off from another RTTU of another block.

RTTU will be ideal in distributed blocks of building like campuses and hostels. The data cable interlinking the RTTU can be "branch" or "star" connection.

For different blocks of building like condominiums, each condo will have its own main control panel and RTTUs. Since 24 hours standby guard is normally at the guard house, all information will be repeated at the guard house master control panel.

Cabling required is 2 pairs data cable + 1 pair speech cable from each block to master control panel at guard house.

The master handset at guard house will be able to talk to any of the remote handset of any block.

Depending on the distance of the RFIS to the RTTU, and the RTTU looping to the MFIP, the wire size may vary, refer to the actual project schematic drawing for verification. User friendly simple keyboard operation to call and connect between the master and remote handset.

16 x 1 character LCD on keyboard. Displays alphanumeric message.

Auto connection between the remote handset with the master handset, when the latter is lifted.

Ringing / Engaged tones both at the remote and master handset, to show callers the status of the system.

Two non-polarised wires are required for inter linking each remote handset with the main fireman intercom panel.

Party line of a minimum of seven which enables conference call to be made.

Compact plug-in modules save on space.

20-Point indication on facial display saves space on main cabinet housing. Red & amber LEDs to differentiate calling & fault conditions.

Automatic volume compensation for different wire length.

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Superb interlinking ability between mastermaster-remote. Only 2+1 pair data cable is needed between the two masters.

Volmeter & LED indication on keyboard panel showing system status.

Audio & visual facility both at master panel & remote handset.

Built-in transient suppressor to protect the modules from external high surge or irregular voltage.

Built-in servicing software for easy maintenance and servicing.

Optional mimic diagram to show the locations of all remote handsets by LED Lights.

Optional printer/computer interfacing for event recording.