



THE ULTIMATE CHOICE WITH UNCOMPROMISING FEATURES

MICTRON 800 MULTIPLEX FIREMAN INTERCOM SYSTEM

MAIN PANEL

Manufacturer : Micro-CTL Electronics Sdn.Bhd
 Brand : Mictron
 Model : 800
 Part Number : M800P-MP
 Power Consumption : 24V DC 150mA
 Operating Temperature : 0 - 45 degree C
 Operating Humidity : 5% to 95% (Non-condensation)
 Panel Construction : Mild Steel
 Panel Thickness : 1.2 - 1.5mm
 Finishing : Epoxy powder coated paint
 Colour : Red
 Testing Standard : MS1745 Part2:2004
 : EN 54 Part2:2004
 : 2011EL0096 & 2011EMC014SIRIM

Test Report

DIGITAL SUB-PANEL (RTTU)

Model : RTTU (Remote Telephone Terminal Unit)
 Material : Mild Steel
 Thickness : 0.9mm
 Finishing : Epoxy powder coated paint
 Colour : Red
 Dimension : 292mm (H) x 216mm (W) x 90mm (D)
 Capacity Zone Card : 10 maximum
 Part Number : M800-RTTU-ALL
 Zone module card : M88-RTU2
 Termination module card : M88-RFT2
 Power Consumption : 20mA or 0.6w, 22-32 volts DC
 Max. Distance to Main Panel : 2km (wires as shown in schematic)
 Operating Temperature : 0 - 50 degree C
 Operating Humidity : 5% to 95% (Non-condensation)

REMOTE FIREMAN INTERCOM STATION (RFIS)

Model : M8-RFIS
 Handset Material : High Impact Thermoplastic
 Handset Colour : Red
 Constant Rating : 24V DC 1A
 Transmitter : Condenser mic.
 Receiver : Dynamic
 Impedance : 150 ohms
 Max. Distance to MH : 2km (2 x 1.5mm² PVC cable)
 Operating Temperature : 0 - 50 degree C
 Operating Humidity : 5% to 95% (Non-condensation)
 Box Material : Mild Steel
 Box Colour : Red
 Box Thickness : 0.9 - 1.2mm
 Box Finishing : Epoxy powder coated paint
 Box Dimension : 356mm (H) x 172mm (W) x 80mm (D)
 Box Cover Dimension : Surface Mount (M8-BC-S) (364mm (H) x 178mm (W))
 Flush Mount (M8-BC-F) (380mm (H) x 195mm (W))

MIMIC DISPLAY

Model : M800-Mimic
 Material : Multicolour mimic on perspex with calling LED
 Operating Temperature : 0 - 45 degree C
 Operating Humidity : 5% to 95% (non-condensation)
 Enclosure Construction : Mild Steel
 Enclosure Thickness : 1.2 - 1.5mm
 Enclosure Finishing : Epoxy powder coated paint
 Colour : Red
 Dimension : Customized

SUB-PANEL

Model : M800-SFIP
 Maximum Distance : 2 km
 Operating Temperature : 0 - 45 degree C
 Operating Humidity : 5% to 95% (non-condensation)
 Panel Construction : Mild Steel
 Panel Thickness : 1.2 - 1.5mm
 Finishing : Epoxy powder coated paint
 Colour : Red
 Dimension : Customized

PC Station

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

BATTERY CHARGER

Model : MCPS-8
 Charger Type : Constant voltage
 Input Voltage : 240V AC ±10% 50Hz
 Charging Voltage (output voltage) : 27.5V DC 1.2A
 Ripple & Noise : 100mV (RMS) maximum
 Operating Temperature : 0 - 50 degree C
 Operating Humidity : 5% to 95% (Non-condensation)

SYSTEM STATUS PANEL

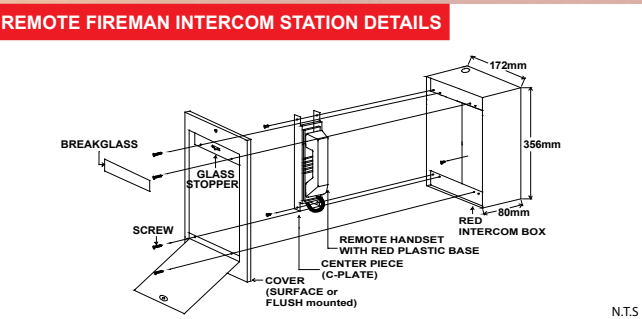
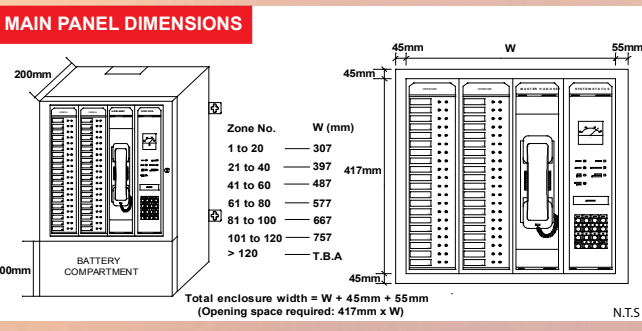
Panel Model : M800P- CPU
 Type : Microprocessor based
 Model : Freescale MC68HC05/08
 Memory : 8K byte EPROM
 : 2K byte RAM
 I/O port : 1 serial & 2 parallel
 Operator Interface : Keyboard with 16 keys
 : 16 x 1 Alphanumeric LCD Display
 System Indications : LED for system fault, AC on/fail
 : DC on, Charger fail & Battery low
 Type of meter : Voltmeter 0 - 30V DC
 Power Consumption : 22-32V DC, 50mA or 1.5W
 Panel Construction : Perspex on aluminium
 Panel Colour : Light grey / light blue / with black labelling
 Panel Dimension : 400mm (H) x 90mm (W) x 30mm (D)
 Operating Temperature : 0 - 50 degree C
 Operating Humidity : 5% to 95% (Non-condensation)

INTERCOM STATUS PANEL

Panel Model : M800P- DP
 Capacity Per-panel : Maximum 20 zones
 Indication : CALL - Red LED
 : FAULT - Amber LED
 Display card Construction : Display card model : M800DP1
 Capacity : 20 zones
 Multiplexer model : M801-DMX (for > 160 zones)
 Power Consumption (20 zones) : 22 - 32V DC, 20mA or 0.6W
 Panel Construction : Perspex on aluminium
 Panel Colour : Light grey / light blue / with black labelling
 Panel Dimension : 400mm (H) x 90mm (W) x 30mm (D)
 Operating Temperature : 0 - 50 degree C
 Operating Humidity : 5% to 95% (Non-condensation)

MASTER HANDSET PANEL

Panel Model : M8P-MH
 Handset Material : High Impact Thermoplastic
 Handset Colour : Red
 Constant Rating : 24V DC 1A
 Transmitter : Condenser mic
 Receiver : Dynamic
 Impedance : 150 ohms
 Panel Construction : Perspex on aluminium (surface panel)
 : Mild-steel (flush panel)
 Panel Colour : Light grey / light blue / with black labelling
 Panel Dimension : 400mm (H) x 90mm (W) x 30mm (D)
 Operating Temperature : 0 - 50 degree C
 Operating Humidity : 5% to 95% (Non - condensation)



Low in price
 High in technology
 Low in maintenance costs
 High in efficiency
 Minimum servicing required
 Maximum performance expected

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



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 Micro-CTL reserves the right to alter specification of its product from time to time without notice.



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 6 with maximum of 192 RTTU & 1920 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.

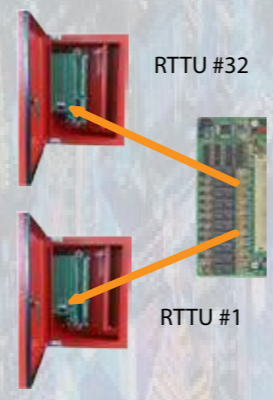
The sub-system can be a full repeater or just a simple panel for the master handsets in different control room to communicate with each other.

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 only 4 data cables, 2 speech cables and 2 power supply cables.

 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.



Parts Interchangeability

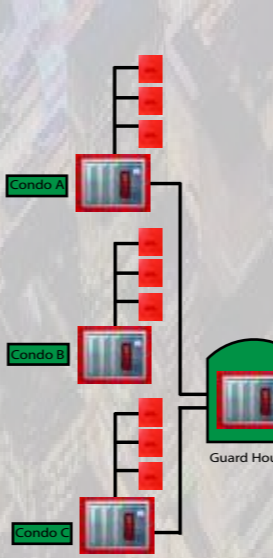
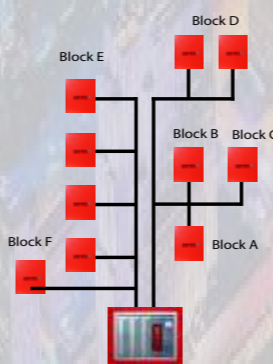
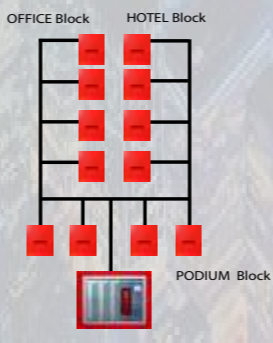
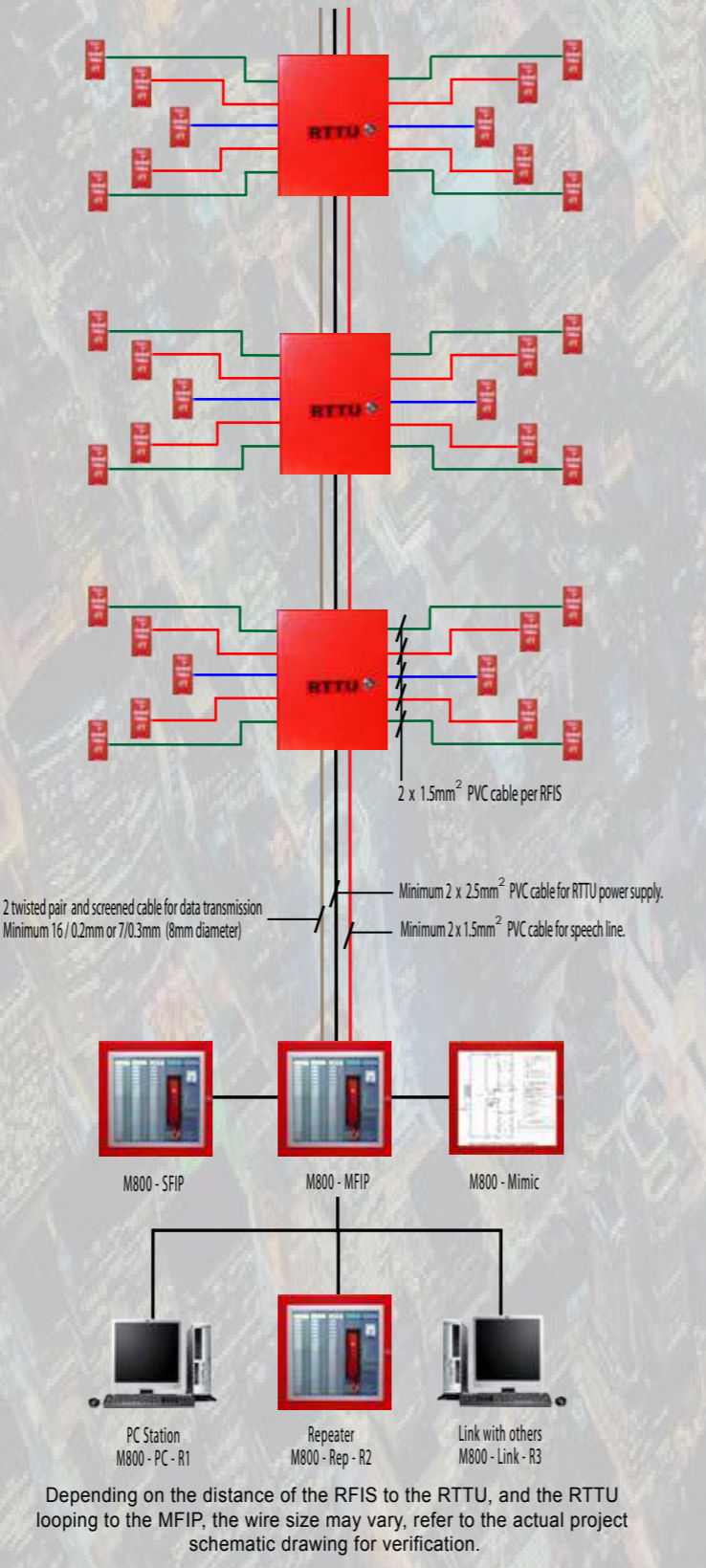
No Address setting is required for RTTU module. The address is set on the wire termination module. To replace the faulty RTTU, just un-plug the faulty wire card & plug in a new card.

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.



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.

Calling 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 lines / conference calls from master handset to seven remote handsets.

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.

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

Voltmeter & 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.

