



Model shown: EC-300 Annunciator panel with EC240 Monitoring panel in a 301-2F frame

Description

Mircom's EC-300 system fulfills the demands of health care or washroom alert applications. The simple operation of Mircom's EC-300 makes it easy to use without the need for extensive training.

A basic system consists of pull cord, or push cord calling stations, a central nurse station, dome lights with possible central corridor horns and duty stations.

Emergency calls are placed from designated EC103/115 Pull/Push Cord stations which are distinctly identified by the flashing suite dome light and central annunciator suite LED. The Central Nurse's station will sound a fast pulsing alert tone and trigger any corridor horns that are connected.

All tones may be silenced but the alarm can only be reset from the station that initiated the call. If the nurse fails to respond to the call within a preset period, the tones will re-initiate.

Features

- **UL 1069 Listed**
- **Multiple Audible/Visual Alarm States**
Three alarm conditions are available on the EC-300 system; fast, slow and steady. Each can be programmed for distinguishing calls for Emergency, Normal Patient calls or Door Alarm.
- **Remote Duty Stations**
Remote Duty Stations may be added to the system to provide signal silence and remote alarm annunciation.
- **Subsequent Alarm**
Using Mircom's EC-103 Pull Cord Stations, it is possible to silence an alarm call and have subsequent alarms re-trigger the audible alarm.
- **Common Alarm Contact**
Common alarm contacts are available for central peripheral alarm devices.
- **Remote Signalling and Control Outputs**
Connections can be made to the central control unit to remotely annunciate alarm calls and initiate signal silence.
- **Modular Design**
Easily expandible, the EC-300 system uses add-on annunciator panels. The modular construction easily facilitates custom applications.

Normal calls are placed from a Call Station which are distinctly identified by the slow flashing suite dome light and central annunciator LED. Similar silencing capabilities for emergency calls are provided for normal calls.

When duty stations are used, the system may be remotely silenced and monitored for alarm calls.

The EC-300 System is the most economical, multistate call system. The system incorporates LED annunciator panels, pull/push cord stations, corridor lights, and duty stations. All these components provide the common features and functions most nurses and administrators feel are necessary.

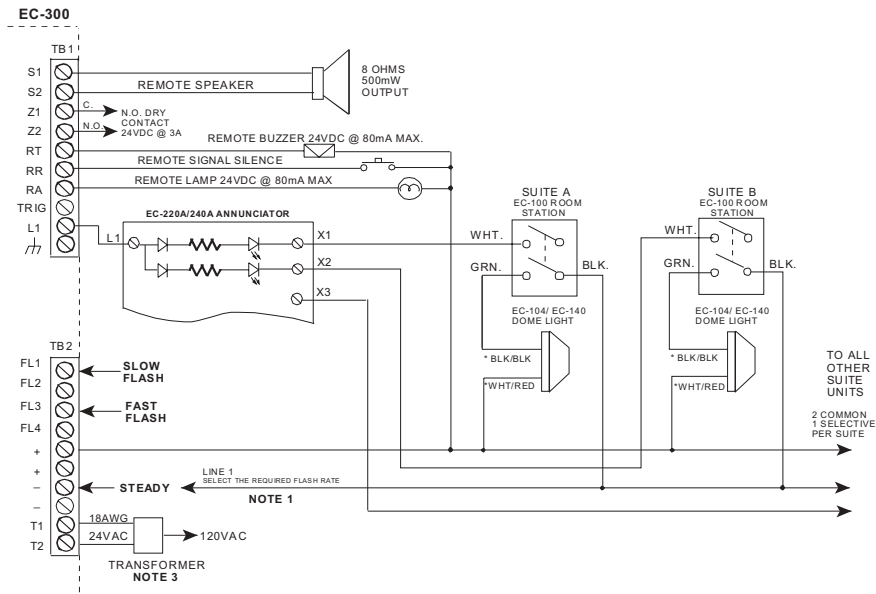


UL 1069 Listed

E200159

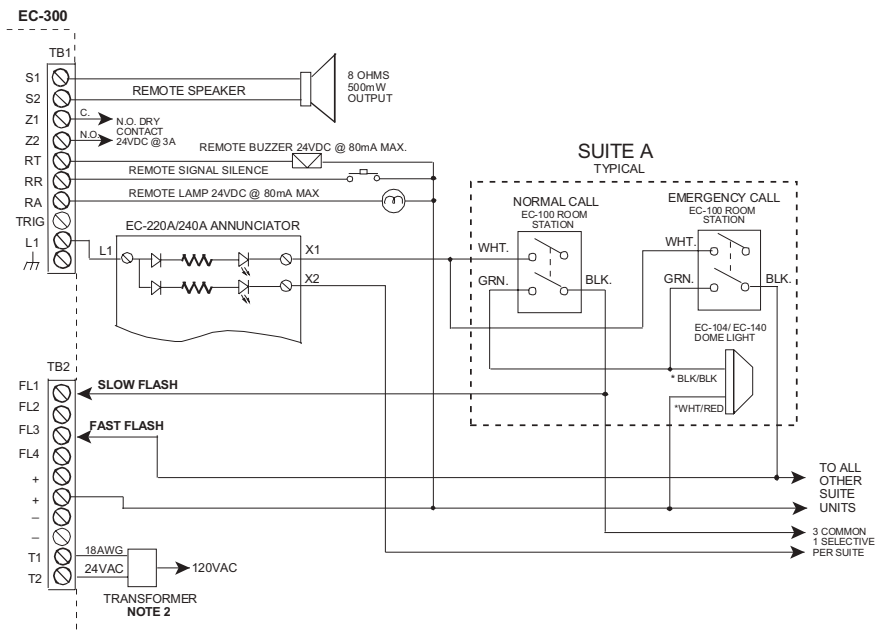
Single State Alarm

The wiring diagram illustrates a typical single state alarm system. A call placed from an EC-100 Pull Cord Station will trigger an audible and visual alarm. Selecting the appropriate terminals on the EC-300 will provide fast or slow flashing alarm conditions. Resetting all alarm calls can only be accomplished at the point of activation. A momentary silence button is provided on the EC-300 to silence all audible devices.



Dual State Subsequent Alarm

The wiring diagram illustrates a typical dual state alarm system with subsequent alarm capability. An alarm initiated from an EC-103 pull cord station designated as a 'normal' station shall pulse a slow audible and visual signal. An EC-103 Pull Cord station designated as an 'emergency' station shall pulse a fast audible and visual signal. Alarms silenced at the EC-300 shall be re-initiated upon receiving a subsequent call. Only the audible signals can be silenced. All visual indicators shall remain until the initiating pull cord station is reset. Further visual aids can be added to change all emergency calls to flash a red dome corridor lamp (see factory for details).



EC Components



EC-220A

Central Monitoring Panel

The Central Monitoring Panel consists of an EC-300 Call Receiver module, EC-220A/240A annunciator module(s) and a 300-nF frame housing.

The EC-300 provides all the controls, audible and visual alarm signalling for the system. An audio amplifier provides all the audible tones through a built-in speaker and the exterior audio ports (S1, S2). A silence button on the EC-300 silences all incoming calls. A DIP switch can program the silence function to be latching or recall after a fixed period of time (2.5, 5 or 10 minutes). External ports are provided for remote monitoring, audible signals and common alarm annunciators. Typically only one EC-300 Call Receiver module is required per system. The EC-300 is designed to withstand transient or electrical noise.

Dimension: 121 mm (w) x 300 mm (h)
[4.875' (w) x 12' (h)]



EC-240A



EC-300 Central Annunciator Panel

Mircom's EC system uses solid state red LEDs for zone annunciation. Two annunciator modules are provided for a 20 (EC-220A) and a 40 (EC240A) zone capacity. These modules can be ganged together to provide any multiple of 20 zones. A protective strip of plexiglass covers the paper directory.

Dimension: 121 mm (w) x 300 mm (h)
[4.875' (w) x 12' (h)]



CC96-010 Push Cord Set

The 1.8 m (6 feet) cord set uses a momentary red button switch to place all calls. All cords come with a linen bed clip.



301-2F

Frames and Backboxes

The Central Monitoring panel is made up of various modules which can be ganged together. The frames have an incremental size to accommodate the various modules. Made from brushed anodized aluminium, the 300-nF frames give a clean durable finish. All frames can be flush or surface mounted, dependant on the backbox used.

Frame	Description	Backbox Flush	Wall Opening Dimensions
301-1F	Accommodates 1 module	301-1B	335 mm (h) x 152 mm (w) x 108 mm (d) [13 3/16" (h) x 6" (w) x 4 1/4" (d)]
301-2F	Accommodates 2 module	301-2B	335 mm (h) x 270 mm (w) x 108 mm (d) [13 3/16" (h) x 11" (w) x 4 1/4" (d)]
301-3F	Accommodates 3 module	301-3B	335 mm (h) x 403 mm (w) x 108 mm (d) [13 3/16" (h) x 15 7/8" (w) x 4 1/4" (d)]



Pull Cord Stations

Mircom Pull Cord Stations are made from durable brushed stainless steel single gang plates. Each pull cord is 1.8 m (6 feet) in length with a white pendant at the end. All stations use UL approved 125 VAC, 3A slide switches. The standard single gang electrical boxes are not supplied with the units.

EC-100

The EC-100 Pull Cord Station has a DPDT slide switch for basic alarm systems.

EC-103

The EC-103 Pull Cord Station has a red LED indicator. A TPD slide switch on the station provides subsequent and dual alarm state operation.





EC-115 Cord Set Station

Designed to utilize various cord sets for initiating a call, the EC-115 station can accommodate a 1/4" diameter cord set. A local reset button is provided on each station and a red confirmation LED. Removal of any cord set shall also trigger a call.



AS-084A Duty Station

To annunciate common alarms a duty station can be used. Made stainless steel single gang electrical plates, the AS-084A is durable to abrasive cleaning agents. A remote silence button on the station shall silence all audible signals. A local piezo alert on the station announces any incoming calls.



EC-104 & EC-106 Corridor Dome Lights

The Corridor Lamps (EC-104, EC-106) mount to a standard single gang electrical box. Each lamp is made from a brushed stainless steel plate.

The EC-104 is a single lamp while the EC-106 is a dual lamp. A partition inside the translucent white lens separates the two lamps from top and bottom.



EC-116 Emergency Push Button Station

For Emergency Notifications a push button station can be used. Pressing the button causes a orange indicator to appear and a signal to be sent to the EC-300. Depressing the button causes the signal to cease and removes the orange indicator.



DA-100A Door Alarm Station

provides peripheral exit security for any facility. Each station can monitor normally open (N.O.) or normally closed (N.C.) contacts. Ideal for nursing homes, the DA-100A can interface with Mircom's Emergency Call Systems.

A Central Monitoring Panel consisting of the EC-300 Call Receiver Module, EC-220A or EC-240 Annunciator Module.

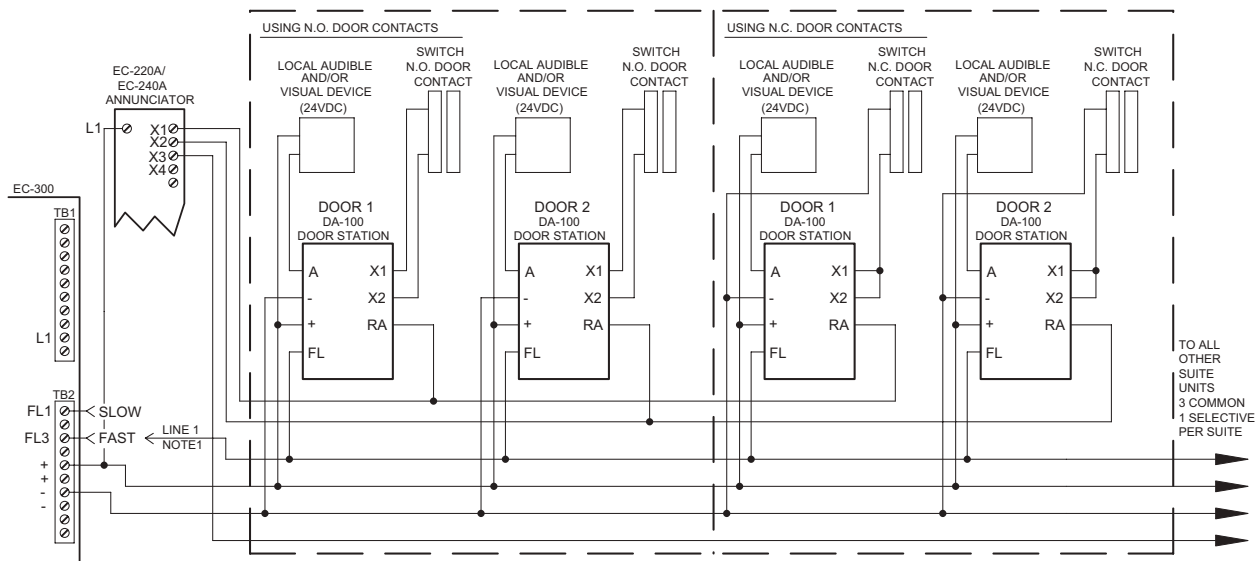
Module shall provide audible and visual annunciation for a multitude of DA-100A stations. A 24 VDC output is provided on each station for local audible and/or visual indicators.

A durable design, the DA-100A is made from stainless steel and uses solid state electronics.

Features

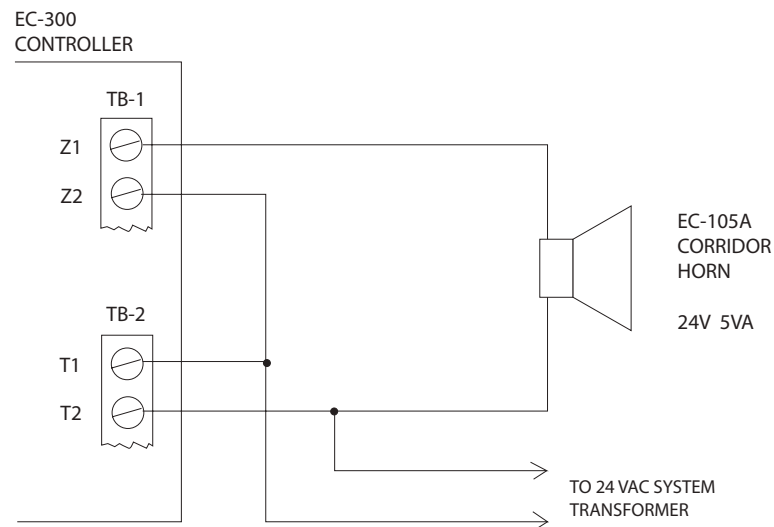
- Keys which are difficult to duplicate
- Form C, 3 ampere relay
- Single gang, stainless steel face plate
- Yellow Status Indicator
- Red Armed Indicator
- Local audible and visual output provided (24VDC)

DA-100A Wiring Diagram



- NOTES:
1. CONNECT LINE 1 TO THE DESIRED FLASH RATE (SLOW OR FAST).
 2. USE 22 AWG. WIRE EXCEPT WHERE NOTED.
 3. ONLY NORMALLY CLOSED (N.C.) CONTACTS WILL BE SUPERVISED.
 4. SEE EC-300 OWNER'S MANUAL FOR MORE INFORMATION.

EC-105A Wiring Diagram



SEE EC-300 INSTALLTION INSTRUCTIONS FOR
COMPLETE WIRING INFORMATION

Ordering Information

Model	Description
EC-220A	20 LED Annunciator panel with a directory
EC-240A	40 LED Annunciator panel with a directory
EC-300	Central Call Receiver Panel
301-1F	Single Panel Frame
301-2F	Two Panel Frame
301-3F	Three Panel Frame
301-1B	Backbox for 301-1F
301-2B	Backbox for 301-2F
301-3B	Backbox for 301-3F
TR-074B	24 VAC, 75 VA Transformer
EC-105A	Stainless Steel Dual Gang Horn, 24V AC
AS-084A	Remote Signal Silence Station with Audible Buzzer
EC-100	Single Gang Pull Cord Station
EC-103	Single Gang Pull Cord Station with LED
CC96-010	Push Cord Set, 6 feet
EC-115	Push Cord Station w/Confirmation LED
EC-116	Emergency Push Button Station
EC-104	Corridor Dome Light
EC-106	Dual Corridor Dome Light
EC-140	Corridor Light and Audible Signal Unit
DA-100A	Door Alarm Station
PS-3B	24VAC Transformer



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