

# ICR-116

## Intercom Relay 16-Channel

The ICR-116 Intercom Switching Relays are ruggedized intercom panels for use in harsh environments, such as correctional facilities. The ICR-116 provides high quality audio communication with complete flexible control. The unit has connections for 16 remote intercom Stations, with Speakers and Call-in Switches. The Call-In and Relay Control connections are each 24 pin ribbon connectors.

A Jumper Option supports either Sinking or Sourcing Relay Drivers. Another Jumper Option allow the Call-in switches be referenced to the Logic, or Relay Power Source.

For convenience, all the ICR-116 terminations are connectorized. Remote Stations connect via 4 pin 0.1" Spring Cage Barrier Strips, Connection for Power, Intercom Amplifier, and Paging Amplifier, are Screw Terminal Euro-Style Barrier Strips

Associated with each Station Selection Relay is a Station Status Indicator. The Station Indicators shows the technician which relay or relays are active. The indicators are intuitive, and easily interpreted. Each Station Indicator is either Off or On. When an Indicator is Off there is no activity with that station. When an Indicator is On, that Station is selected for Communication. *The indicator is an LED in series with each relay coil to provide supervision. If the relay coil has failed the LED will not come on when the relay is activated.*

In applications where a more powerful Paging Amplifier is required, a Paging Relay(s) connects *Selected* Stations to a Paging Amplifier Output, such as the Tech Works PA-402.

### BENEFITS

- Designed Specifically for Corrections
- High Quality Audio
- Sink or Source Logic Control

### Associated Equipment

<b>ICA-202D</b>	Dual Channel Intercom Amplifier
<b>DODC-1</b>	Detention Operator Desk Console
<b>PA-402</b>	Paging Amplifier
<b>ICR-44</b>	Intercom Relay
<b>RC-24-10</b>	Ribbon Cable
<b>RC-BB-24</b>	Ribbon Cable Breakout Board

### Design Information

<b>Power Input</b>	24V DC (Power Supply Not Included)
<b>Max Power</b>	Station – 50W Paging – 100W
<b>Relays</b>	16-Double Pole/Throw Station Audio 2x Double Pole/Throw Paging Audio
<b>Color</b>	Gray Powder Coat
<b>Mounting</b>	Standard 19-in. Rack
<b>Dimensions</b>	19" W X 1.75" H X 8.6"D
<b>Weight</b>	5 lbs.

### Architects' & Engineers' Specifications

The Audio Intercom Switching Relays shall be low noise, double pole/double throw, sealed units with 24 Volt DC coils. Relays must be capable of being controlled from either positive or negative switching. Each relay shall have separate discrete control and have an individual LED indicator that lights whenever the relay is active. Control access for connection to PLC or other controllers shall be via 24 pin ribbon cables. Individual station connections shall be connectorized for easy installation of field wiring. Relay panels shall be rack mount units with 16 station relays and include separate paging and intercom amplifiers connections for selectable paging input and relay control. The Audio Intercom Switching Relays shall be Tech Works ICR-116

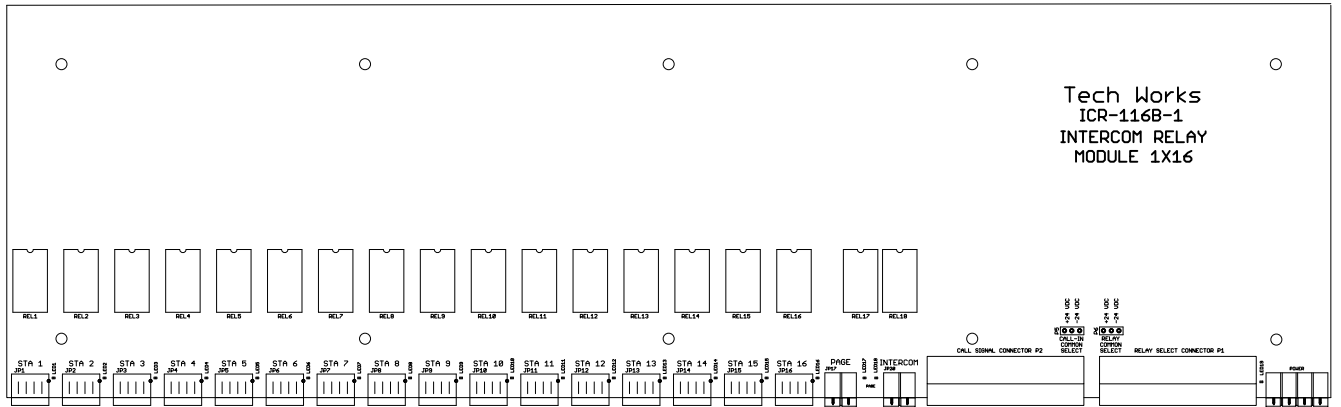


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## Printed circuit board



## Circuit Schematic

