

## ERC-800 series Ethernet based remote Relay and Display :

TCP/IP protocol has become almost default preference when it comes to networking of the devices. The biggest advantage of TCP/IP is relatively easy availability of network devices and trained work force. With MODBUS over TCP/IP, it has become very easy to connect, control and monitor devices through central software. The ERC-800 series of Ethernet based remote relay and display units is very helpful when you want to add remote alarm units on Ethernet network. Since it is Ethernet based, the device can be plugged in at any place and controlled easily from the control room. This along with G-Tek's networked software GtekNet, you can send the information about alarm condition being generated from any device to this unit along with the message on the display. The messages and relays on/off are fully configurable from software. Device operates on MODBUS TCP/IP so you can easily integrate with your existing system also. A buzzer is provided and can be set or reset remotely to attract the attention of the nearby person. It can be turned off for the pre-set time. User can also choose the add-on GSM module. In case of predefined event (user configurable) this module will send voice or message to the user settable mobile numbers. Logs of successful sending or failure can also be downloaded for future reference.

### Features :\*

- Avoids complicated wiring process.
- Maximum of 12, 1 Form C (NC-C-NO) relay with rating of 230V AC, 2A resistive load
- On/off Status of each relay on individual LED.
- Integrated buzzer with user settable on/off time
- LCD (20x4 (20 characters by 4 line)) as display with TN reflective Blue over white.
- User settable Information on display
- Easy to operate
- TCP/IP based communication to connect with application.
- Auto reset of all relays in event of communication failure
- User can decide and set communication failure time from application
- Manual reset of buzzer from Keyboard
- GSM dialler for call and message alert (Optional)
- User settable mobile numbers for alerts and messages
- User settable SMS message with maximum length of 135 characters.
- User settable voice message
- Fully configurable, for mobile no to message and/or voice call
- Universal 85-264 V AC; 47-63Hz Power supply.

### Specifications :

#### Relay :

Contact form	Potential free contact, 1 FORM C
Relay rating	230V AC, 1A, Resistive load
No. of relay availability	Maximum 12
Relay Status	Yes, LED for each individual Relay

#### Display, Operator Panels :

Display Type	LCD display with TN reflective Blue over white, 20x4 (20 characters by 4 line)
Display strings	User settable up to 20 character wide 4 strings
Type of strings	Normal

#### General :

Inputs	1. Relay and buzzer ON/OFF command 2. Data(string) to display on LCD 3. Command for GSM alert from gtekNet™ 4. Communication failure alert time
Outputs	1. Relay ON/OFF 2. Data(string) on LCD 3. GSM Alerts for different conditions 4. Buzzer
Reset	1. After fixed time of reset 2. From keyboard with fixed key sequence
RTC	Yes (Format: - DD/MM/YY HR/MN/SC)
PC application	Yes, to give all commands (Inputs) to system, download logs, to set GSM alert related information.
Web page	Yes, to provide general Device Information and to change Network Configuration.



### Power Requirement :

Supply Voltage (Mains Operated)	85-264V AC 47-63Hz
Battery backup	No
DC Adapter Operated	No

### Buzzer :

Type	Single tone on alarm.
Buzzer tone ON/OFF time	Yes, User settable through application

### Keyboard :

No. of Keys	Five
Function of Keys	1. To turn off the buzzer temporarily. 2. Test GSM module

### Alert over GSM :

Text Message	Yes, 135 characters long alerts, stored in memory.
Voice alert	Yes
No. of different voice message	One.
Voice recording	Yes, Recordable through RJ11 Connector.
Maximum no. of contacts	Up to 20 contacts; fully configurable through gtekNet™
Events for alert	Field programmable through gtekNet™
Network status	Network signal status on web page and gtekNet™

### Communication :

Type	MODBUS over TCP/IP
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# ERC-800

• Your Ordering Code : mail to [sales@gtek-india.com](mailto:sales@gtek-india.com)

## Environmental :

Temperature	(Operation) 5°C to 45°C (Limiting) 0°C to 50°C (Storage) -20°C to 60°C
Humidity	(Operation) 10 to 80 % RH Non Condensing (Storage) 5 to 90 % RH Non Condensing
Altitude	<2000 meter

## Safety :

Pollution Degree	II
Installation Category	IV
Shock	NA
IP Rating	NA

Select your ORDER Code:

<input type="text"/>	<input type="text"/>	<input type="text"/>	-	<input type="text"/>	<input type="text"/>
8	0	2	-	0	0

Example ORDER Code:

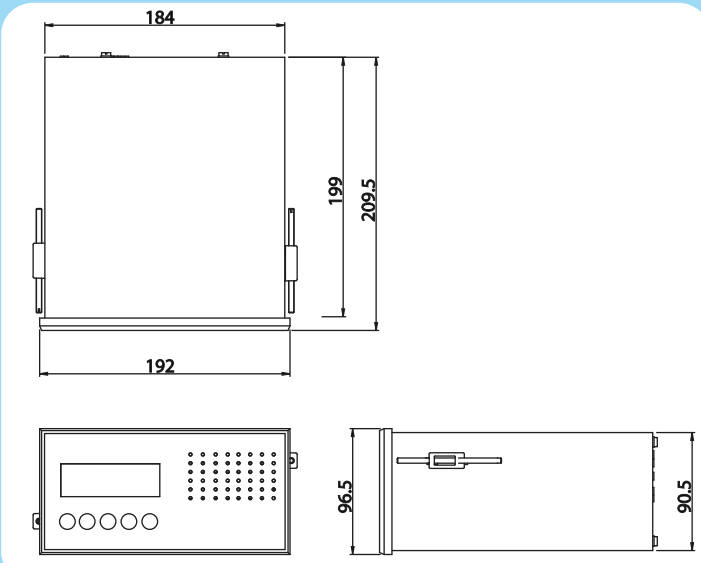
Code : Series  
8 : ERC 800-Relay Controller

Code : No of Relays  
0 : 4 Relays  
1 : 8 Relays  
2 : 12 Relays

Code : GSM Message and/or Call  
0 : None  
1 : Message Only  
2 : Call & Message

Code : No Mobile Contacts  
0 : 5  
1 : 10  
2 : 15  
3 : 20

Code : Memory  
0 : None



### Overall Dimension:

Dimension L x W x D (mm)	210x192x96
Panel Cutout (mm)	184x92 +0.5

Dealer / Representative

The specifications given above are an overview, and may be or may not be available in all product variants, or at an additional cost. The company reserves the right to change the specifications without prior notice, as the company follows a continual improvement philosophy for its products.



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