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 gtekNetTM, 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 predefinedevent (user configurable) this module will send voice or SMS 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, 2Aresistive load
- On/off Status of each relay on individual LED.
- Integrated buzzer with user settable on/off time
- LCD (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 dialer 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 message and/or voice call
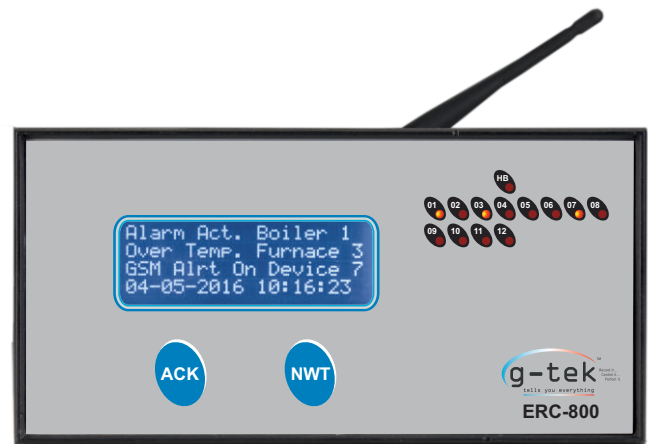- Universal 85-264 V AC; 47-63Hz Power supply.

Specifications

Relay :

Contact form	Potential free Contract, 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 and 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 alertfrom gtekNet™ 4. Auto reset 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, togive 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)	85-264VAC 47-63Hz
Battery backup	No
DC Adapter Operated	No

Buzzer :

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

Keyboard :

No. of Keys	Two
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
	Contact Nos are field programmable through gtekNet™ application.
Events for alert	Field programmable through gtekNet™ application.
Network status	Network signal status on web page and gtekNet™ application.

Communication :

PC Interface	Ethernet TCP/IP
Ethernet	10 /100 Base T (IEEE 802.3)
Connector	RJ45
Protocols Supported	MODBUS TCP/IP; HTTP;
Communication Activity LED	Yes
Isolation (Terminal – GND)	1KV, 1minute

Overall Dimension :

Dimension L x W x H (mm)	210 x 190 x 95 mm

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	III
Shock	NA
IP Rating	NA

Select your ORDER Code: ☐☐☐ – ☐☐

Example ORDER Code: **8 0 2 - 0 0**

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

Dimensions:
- 184
- 199
- 209.5
- 192
- 96.5
- 90.5

Overall Dimension:

Dimension L x W x D (mm)	210 x 192 x 96
Panel Cutout (mm)	184x92 (+0.5 tolerance on both)

CE

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001-ISO 14001

g-tek™
better by performance

Dealer / Representative

- -

Manufacturers of :
- Circular Chart Recorders
- Inkless Recorders
- Paperless Recorders
- Scanners & Data Loggers
- Networked Data Loggers
- Application Software
- Web based DAQ
- Vaccine Series Data Loggers

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