

Receiver Unit ES100RX

- Compact design
- Easy to use
- 126 Channels
- Optional additional receivers
- Transmitter details given to LCD display
- Last 16 alarms stored
- Audible alarm
- Volt free contact
- Power failure / low battery alarm
- Rechargeable battery back up



Communication

INTERNET

MOBILE

If a communications unit is fitted to the receiver it will send alarm information to a password protected web page. A fuller description can be given on the web page for the unit number e.g. "Unit 14"



Unit No.	Description	Time	Date	Alarm Type	Message Sent
0	ARC Freezer (N17), Room 15A, Floor 1	11:05	2003/02	Temp KP 1	YES
2	ARC Freezer (N17), Room 15, Floor 1	11:06	2003/02	Temp KP 2	YES
11	ARC Freezer (N17), Room 15, Floor 1	01:08	2003/02	Temp LP 1	YES
12	ARC Freezer (N17), Room 15, Floor 1	11:11	2003/02	Temp LP 1	YES
14	Incubator (N17), Room 15, Floor 1	11:11	2003/02	Temp LP 1	YES
7	LAD (N17) (N17), Room 1, Floor 1	11:05	2003/02	Temp LP 2	YES
22	LAD (N17) (N17), Room 1, Floor 1	01:02	2003/02	Temp LP 2	YES
23	LAD (N17) (N17), Room 1, Floor 1	01:05	2003/02	Temp LP 2	YES
5	LAD (N17) (N17), Room 1, Floor 1	11:08	2003/02	Temp LP 2	YES
12	LAD (N17) (N17), Room 1, Floor 1	11:06	2003/02	Temp LP 2	YES
14	Incubator (N17), Room 15, Floor 1	11:10	2003/02	Temp LP 2	YES
34	ARC Freezer (N17), Room 21, Floor 1	11:05	2003/02	Temp LP 2	YES
43	ARC Freezer (N17), Room 21, Floor 1	11:06	2003/02	Temp LP 2	YES
4	ARC Freezer (N17), Room 15, Floor 1	11:05	2003/02	Temp LP 3	YES
5	LAD (N17) (N17), Room 1, Floor 1	01:21	2003/02	Temp LP 3	YES
5	LAD (N17) (N17), Room 1, Floor 1	01:21	2003/02	Temp LP 3	YES
36	ARC Freezer (N17), Room 21, Floor 1	11:05	2003/02	Temp LP 3	YES
2	ARC Freezer (N17), Room 15, Floor 1	01:08	2003/02	Temp LP 3	YES

could be called "-80°C Freezer Cancer Research Room 16, Temp Fault". When an alarm is sent to the web page it will be date and time stamped. The full history of alarms will be logged on the web page and cannot be deleted. The full alarm message can then be selectively text messaged to up to 10 different mobile numbers or e-mail addresses. The text message received would be

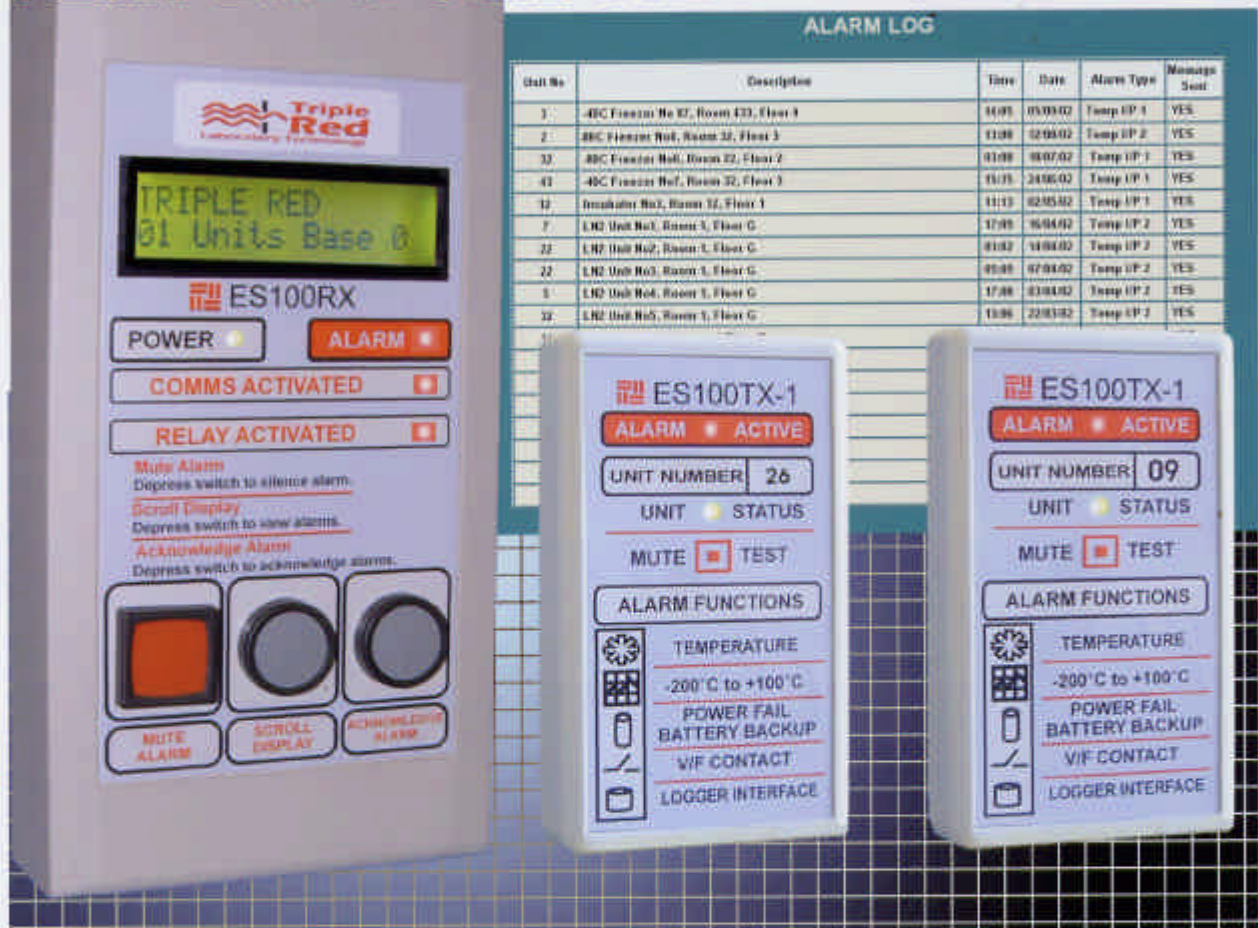
"-80°C Freezer Cancer Research Room 16, Temp Fault".

Changes to mobile telephone contacts are simply made through your password protected web page.

This gives the user access to alarm information from any computer with Internet access.

If simpler communications are required, a conventional speech dialler can be fitted to the receiver unit.

TEMPERATURE ALARM SYSTEMS



Unit No	Description	Time	Date	Alarm Type	Message Sent
1	-80C Freezer No 02, Room 03, Floor 1	14:05	05/06/02	Temp IP 1	YES
2	-80C Freezer No5, Room 32, Floor 3	01:00	02/06/02	Temp IP 2	YES
33	-80C Freezer No6, Room 22, Floor 2	01:00	04/07/02	Temp IP 1	YES
41	-80C Freezer Ref, Room 32, Floor 3	05:05	24/06/02	Temp IP 1	YES
12	Incubator No2, Room 12, Floor 1	11:13	02/05/02	Temp IP 1	YES
7	LH2 Unit No3, Room 1, Floor G	17:05	16/04/02	Temp IP 2	YES
22	LH2 Unit No2, Room 1, Floor G	01:02	14/04/02	Temp IP 2	YES
22	LH2 Unit No3, Room 1, Floor G	05:05	07/04/02	Temp IP 2	YES
1	LH2 Unit No4, Room 1, Floor G	17:08	03/04/02	Temp IP 2	YES
22	LH2 Unit No5, Room 1, Floor G	13:06	22/03/02	Temp IP 2	YES

ES100RX
POWER ALARM
COMMS ACTIVATED
RELAY ACTIVATED
Mute Alarm
Depress switch to silence alarm.
Scroll Display
Depress switch to view alarms.
Acknowledge Alarm
Depress switch to acknowledge alarms.
MUTE ALARM SCROLL DISPLAY ACKNOWLEDGE ALARM

ES100TX-1
ALARM ACTIVE
UNIT NUMBER 26
UNIT STATUS
MUTE TEST
ALARM FUNCTIONS
TEMPERATURE
-200°C to +100°C
POWER FAIL
BATTERY BACKUP
V/F CONTACT
LOGGER INTERFACE

ES100TX-1
ALARM ACTIVE
UNIT NUMBER 09
UNIT STATUS
MUTE TEST
ALARM FUNCTIONS
TEMPERATURE
-200°C to +100°C
POWER FAIL
BATTERY BACKUP
V/F CONTACT
LOGGER INTERFACE

A radio alarm system for temperature monitoring of critical laboratory products which sends remote signals to telephones, central alarm panels or an internet website and raises a local alarm.

No hard wiring is required which allows products to be moved in the future and additional units can simply be added. Data-logging of temperature can be provided for critical products or GLP applications.

FEATURES

- 126 channel receiving unit
- LCD receiver display
- Self testing transmitters
- Selectable communications
- Internet access to alarm information
- A text message can be sent to up to 10 mobile phones
- Data logging alarms interfaced with the system

Common Questions and Answers

Q What happens when there is a temperature alarm?

A When a temperature rises above the preset alarm set-point, the following sequence of events happens.

The time delay is activated. If the temperature does not drop below the alarm set-point before the end of the time delay, the alarm buzzer and fault LED on the transmitter will be activated.

The alarm receiver will be activated giving audible and visual indication on the LCD panel. The LCD panel will display transmitter unit number and type of fault e.g. Unit 14 Temp I/P1.

If a communications unit is fitted it will send the information to a password protected web page.

Note : A fuller description can be given on the web page for the unit number e.g. "Unit 14" could be called "-80°C Freezer Cancer Research Room 16"

When the alarm is sent to the web page it will be date and time stamped. A full history of alarms will be logged on the web page and cannot be deleted.

The full message and alarm can then be selectively text messaged to up to 10 different mobile numbers or e-mail addresses.

e.g. the text message received would be

-80°C Freezer Cancer Research Room 16, Temp Fault I/P 1

Q What happens when there is a power fail alarm?

A If the fault was a power failure on unit 14 the same sequence of events would happen as answer 1 but the fault description would indicate power fault on the receiver, web page and text messages.

e.g. the text message you would receive would be

-80°C Freezer Cancer Research Room 16, Power Fault

Q Can different alarms be text messaged to selective mobile numbers?

A The transmitter unit number can be assigned to certain telephone numbers on the web page, allowing several departments or people to use the same system e.g. transmitter unit 4 and 10 can be configured to send messages to phone number 3 and 7 only in the event of an alarm.

Q How do I know if the transmitters are reliably communicating with the receiver?

A The system will automatically test its communications between every transmitter and the receiver every 1 hour.

If the receiver has not received the test signal from a transmitter, an alarm will be generated every four hours at the receiver until it is acknowledged.

Q The equipment monitored by the transmitter has developed a fault. Can I switch off the transmitter to stop false alarms?

A Yes, the transmitter has a disable switch with easy accessibility.

Q How far can the transmitters be away from the receiver?

A The system range between transmitter and receiver is specified at 100m but in practice, this distance can be greater or smaller depending on the building construction and sighting of units. A transponder unit can be used to increase the distances if required.

Satellite sites can be connected through a separate receiver and communications can log and send relevant messages via your password protected web page.

Ordering Information

ES100RX-2	126 channel alarm receiver	<input type="checkbox"/>	PTX100	Temperature probe -200°C to +100°C	<input type="checkbox"/>
ESRX100SE	Local monitoring software	<input type="checkbox"/>	ESDATA	Data logger	<input type="checkbox"/>
COMINT100	Internet communications	<input type="checkbox"/>	DPTX100	Data logger probe -200°C to +100°C	<input type="checkbox"/>
COMINTGMS	GMS Internet communications	<input type="checkbox"/>	DTX100	Data logger interface connector	<input type="checkbox"/>
SD1+	Auto dialler	<input type="checkbox"/>	ESDATASW	Data logger software and cable	<input type="checkbox"/>
ES100TR	Transponder unit	<input type="checkbox"/>			
ES100TX-1	Alarm transmitter	<input type="checkbox"/>		Installation and commissioning	<input type="checkbox"/>

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Triple Red
Laboratory Technology

Transmitter Alarm Unit ES100TX-1

- Compact design
- Easy to use
- Temperature, data-logger and Volt free contact inputs
- Range -200°C to $+100^{\circ}\text{C}$
- Mains power failure alarm
- Low battery alarm
- Fault details displayed on receiver
- Automatic self test every 4 hours
- Power and alarm indication
- Audible and visual alarms
- Rechargeable battery back up
- Adjustable time delay for temperature alarms
- Fixed time delay for power and Volt free contact alarms
- Disable transmitter switch



Data-Logging

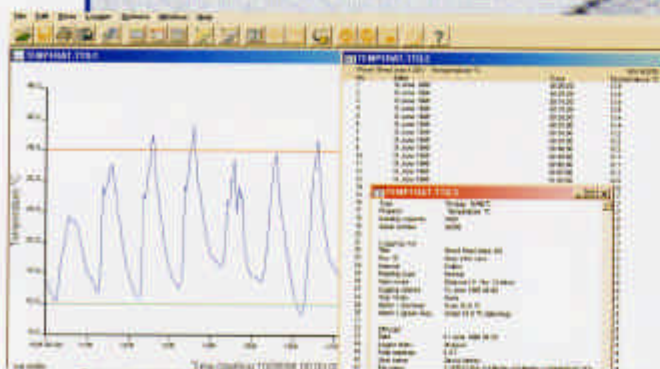
TEMP

%RH

CO₂

Most of the Gemini Tinyview and Tinytagplus range of loggers can be interfaced with the ES100TX-1 transmitter alarm unit.

This gives the ability to locally and economically log temperature, humidity or CO₂; with all the added features of the ES100TX-1 alarming and communications capability.



For example: high and low alarm limits are set in the logger. These limits once breached will send an alarm to the receiver.

The powerful data logging software is simple to use.