

## E-3GU-4/5 USB MODEM INSTALLATION



(Product appearance may vary)

**E-3GU-4/5**

The E-3GU-4/-3GU-5 Modem is used to enable SMS alert messages to be sent from an ENVIROMUX Enterprise Environment Monitoring System (SYSTEM) to any user's cell phone or device capable of receiving SMS messages. Before connecting the modem to the SYSTEM, a GSM SIM card configured for SMS messaging must be installed to the modem following instructions from the modem manufacturer.

### Compatibility Chart

Modem Model	System Compatible With
E-3GU-4	E-2D/5D/16D, E-MINI-LXO
E-3GU-5	E-2D/5D/16D, E-MICRO-T(RHP),E-1W(P)

### Cell phone Mini SIM card for GSM modem

A SIM card or *Subscriber Identity Module* is a portable memory chip used in some models of cellular telephones. It can be thought of as a mini hard disk that automatically activates the phone (or in this case the GSM modem) into which it is inserted. SIM cards are available in four standard sizes. The first is the size of a credit card (85.60 mm x 53.98 mm x 0.76 mm). The next, more popular miniature-version ("mini") has a width of 25 mm, a height of 15 mm, and a thickness of 0.76 mm. The third, "micro" version measures 15 mm x 12 mm x 0.76 mm, and lastly the "nano" measures 12.3 mm by 8.8 mm by 0.67 mm.

The ENVIROMUX modems accept the mini SIM card and the micro SIM card (when used with mini SIM card adapter).

Some cellular service providers use SIM cards. Verify with your service provider that their SIM card will work with 3G GSM type modems before purchasing their SIM card.

**Note: Make sure the SIM card is for GSM communication (not CDMA), configured to send SMS messages, and that it is not locked (some SIM cards are "locked" to search for a specific IMEI number of the phone to operate).**

With the SIM card installed, plug the modem into an available USB Type A port on the SYSTEM.



Once installed, the SYSTEM will sense the modem and provide status information on the "Enterprise Configuration" page in the web browser.

When a modem is present, the type, status, IMEI number, and signal strength will be displayed. The modem will work with a signal strength between -111dBm (weak) and -51dBm (strong).


To send and receive SMS messages, be sure to enable SMS messaging in the configuration for each applicable sensor and for each user that will receive them. (Refer to your respective SYSTEM manual for configuration instruction.)

## Enterprise Configuration

Enterprise Settings	
Enterprise Name	<input type="text" value="E-SEMS-16LX Unit 1"/> <small>Name to identify this unit</small>
Location	<input type="text" value="Engineering N/A N/A"/> <small>Location/Address</small>
Branch	<input type="text" value="Branch"/> <small>Branch</small>
Rack	<input type="text" value="Rack"/> <small>Rack</small>
Contact	<input type="text" value="Contact Person"/> <small>Contact person</small>
Phone	<input type="text" value="Phone No"/> <small>Phone number of contact person</small>
E-mail	<input type="text"/> <small>E-mail address for messages sent from this unit</small>

GSM Modem Status	
Modem Type:	USB Modem
IMEI:	353254030124511,PZ2996N2VN
Modem Status:	Ready
Signal Power:	-103 dBm



(RJ45 Sensor Configuration)

Sensor Settings	
Description	E-MINI-LX-P2 Temporal <small>Descriptive name for the sensor</small>
Group	1 <small>Select which group the sensor belongs to</small>
Units	Deg. C <small>Select the units for the sensor</small>
Min. Level	-20.0 <small>Min. supported value for the sensor</small>
Max. Level	70.0 <small>Max. supported value for the sensor</small>
Min. Non-Critical Threshold	20.0 <small>Min. threshold below which indicates a non-critical alert condition</small>
Max. Non-Critical Threshold	33.0 <small>Max. threshold above which indicates a non-critical alert condition</small>
Min. Critical Threshold	15.0 <small>Min. threshold below which indicates an alert condition</small>
Max. Critical Threshold	50.0 <small>Max. threshold above which indicates an alert condition</small>
Refresh Rate	10 Sec <small>The refresh rate at which the sensor view is updated</small>

1. Assign sensor to a group

Non-Critical Alert Settings	
Disable Alerts	<input type="checkbox"/> <small>Disable alert notifications for this sensor</small>
Alert Delay	10 Sec <small>Duration the sensor must be out of thresholds before alert is generated</small>
Notify Again Time	44 Hr <small>Time after which alert notifications will be sent again</small>
Notify on return to normal	<input checked="" type="checkbox"/> <small>Send a notification when this sensor returns to normal status</small>
Enable Syslog Alerts	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via syslog</small>
Enable SNMP Traps	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via SNMP traps</small>
Enable E-mail Alerts	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via e-mail</small>
E-mail Subject	<input type="text"/> <small>Subject of e-mails sent for alerts</small>
Enable SMS Alerts	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via SMS</small>

2. Enable SMS Alerts for that sensor

Critical Alert Settings	
Disable Alerts	<input type="checkbox"/> <small>Disable alert notifications for this sensor</small>
Alert Delay	30 Sec <small>Duration the sensor must be out of thresholds before alert is generated</small>
Notify Again Time	30 Min <small>Time after which alert notifications will be sent again</small>
Notify on return to normal	<input checked="" type="checkbox"/> <small>Send a notification when this sensor returns to normal status</small>
Auto acknowledge	<input checked="" type="checkbox"/> <small>Automatically acknowledge alert when sensor returns to normal status</small>
Enable Syslog Alerts	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via syslog</small>
Enable SNMP Traps	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via SNMP traps</small>
Enable E-mail Alerts	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via e-mail</small>
E-mail Subject	<input type="text"/> <small>Subject of e-mails sent for alerts</small>
Enable SMS Alerts	<input checked="" type="checkbox"/> <small>Send alerts for this sensor via SMS</small>

(Digital Input Sensor Configuration)

Digital Input Configuration

**Sensor Settings**

Description: Digital Input#1  
Descriptive name for the sensor.

Group: 1  
Select which group the sensor belongs to

Normal Status: Open  
Select the normal status for the sensor

Refresh Rate: 20 Sec  
The refresh rate at which the digital input view is updated

**Alert Settings**

Disable Alerts:  Disable alert notifications for this sensor

Alert Delay: 30 Sec  
Duration the sensor must be out of thresholds before alert is generated

Notify Again Time: 30 Min  
Time after which alert notifications will be sent again

Notify on return to normal:  Send a notification when this sensor returns to normal status

Auto acknowledge:  Automatically acknowledge alert when sensor returns to normal status

Enable Syslog Alerts:  Send alerts for this sensor via syslog

Enable SNMP Traps:  Send alerts for this sensor via SNMP traps

Enable E-mail Alerts:  Send alerts for this sensor via e-mail

E-mail Subject:   
Subject of e-mails sent for alerts

Attach IP camera capture to e-mail:  Bench Camera  
Attach captured image from selected IP camera to alert e-mail

Enable SMS Alerts:  Send alerts for this sensor via SMS

**Data Logging**

Save

**Alert Simulation**

Simulate Alert Clear Alert

1. Assign sensor to a group

2. Enable SMS Alerts for that sensor

(User Configuration)

**Group Settings**

Group 1	<input checked="" type="checkbox"/>	User receives notifications for Group 1
Group 2	<input type="checkbox"/>	User receives notifications for Group 2
Group 3	<input type="checkbox"/>	User receives notifications for Group 3
Group 4	<input type="checkbox"/>	User receives notifications for Group 4
Group 5	<input type="checkbox"/>	User receives notifications for Group 5
Group 6	<input type="checkbox"/>	User receives notifications for Group 6
Group 7	<input type="checkbox"/>	User receives notifications for Group 7
Group 8	<input type="checkbox"/>	User receives notifications for Group 8

**Contact Settings**

E-mail Alerts:  User receives alerts via e-mail

E-mail Address:   
E-mail address for the user

Syslog Alerts:  User receives alerts via syslog

SNMP Traps:  User receives alerts via SNMP traps

Syslog/SNMP IP Address:   
IP address where syslog/SNMP messages are sent for this user

SMS Alerts:  User receives alerts via SMS

SMS Number: 330-555-1212  
Phone number where SMS messages are sent for this user

3. Configure User to receive messages from the group

4. Enable User to receive SMS messages

5. Enter phone number for user to receive SMS messages at