



3G9080/3G9080-EU/3H9080/LE9080 Cellular Alarm Communicator Installation Instructions

29010165R003

Important: Use this manual in conjunction with the PowerSeries Pro Reference Manual. Observe all the safety instructions specified in the manual. Before operation, ensure that the panel is fully assembled and closed.

Safety information: All servicing, except backup battery replacement, must be performed by a service person only. Use only authorized accessories with this equipment. Observe and respect all rules imposed by local electrical codes. This manual contains information on limitations regarding product use and function, and on the limitations as to the liability of the manufacturer. Read the entire manual carefully. For warning information, refer to the PowerSeries Pro alarm system Reference Manual. The communicator must be installed by service persons only and used in an environment that provides a maximum pollution degree of 2 and an overvoltages category II in non-hazardous, indoor locations only. Observe these instructions and the instructions specified within the panel manual.

Model information: All models are compatible with the control panels HS3032, HS3128, and HS3248. The communicator supports Internet Protocol (IP) transmission of panel and communicator events over HSPA/GPRS or LTE. The communicators are compatible with the following Sur-Gard receivers: SG-System I V1.4+, SG-System II V2.14+, SG-DRL3-IP V2.36+, SG-DRL4-IP V1.29+ and SG-DRL5-IP V1.05+ (required for visual verification support).

Technical specifications

The following technical specifications apply to all models.

Input voltage: 3.4 - 4.2 V, nominal 3.8 V (provided by the host alarm panels HS3032, HS3128, and HS3248).

Standby current: 12 - 28 mA at 3.8 V.

Alarm (transmitting) current: 750 mA at 3.8 V (max avg).

Operating temperature: -10°C to 55°C. UL/ULC has only verified operation for range 0 °C to 49°C.

Relative humidity: 5% to 93%, noncondensing.

Mechanical specifications: 81 x 61 x 11 mm (W x L x H); weight is 25 g.

Model	Market	Operating frequency (MHz)	Typical antenna gain (dBi)
LE9080 - UL/ULC listed	Canada, USA	2G - B5: UL: 824 - 849, DL: 869 - 894	1.3
		B2: UL: 1850 - 1910, DL: 1930 - 1990	6.8
		4G - B12: UL: 699 - 716, DL: 729 - 746	1.2
		B13: UL: 777 - 787, DL: 746 - 756	2.2
		B5: UL: 824 - 849, DL: 869 - 894	1.3
		B4: UL: 1710 - 1755, DL: 2110 - 2170	4.6
		B2: UL: 1850 - 1910, DL: 1930 - 1990	6.8
3G9080 - UL/ULC listed	Argentina	2G - B5: UL: 824 - 849, DL: 869 - 894	1.4
		B2: UL: 1850 - 1910, DL: 1930 - 1990	6.7
		3G - B5: UL: 824 - 849, DL: 869 - 894	1.4
		B2: UL: 1850 - 1910, DL: 1930 - 1990	6.7
3G9080-EU - CE compliant	Europe	2G - B8: UL: 880 - 915, DL: 925 - 960	2.0
		B3: UL: 1710 - 1785, DL: 1805 - 1880	4.6
		3G - B8: UL: 880 - 915, DL: 925 - 960	2.0
		B1: UL: 1920 - 1980, DL: 2110 - 2170	6.7/2.8

Inserting and removing the SIM card

⚠ Use caution when you handle the SIM card. To avoid damage to the SIM card, ensure that there are no bent or scratched contacts.

To insert and remove the SIM card, complete the following step:

- Insert or remove the SIM card by sliding it in or out of the holder. The notch on the corner of the SIM card must align with the notch on the base of the holder.

Installing and replacing the communicator

Note: Before installing the communicator, confirm with the local service provider that there is an available and active network in the area.

Opening the unit

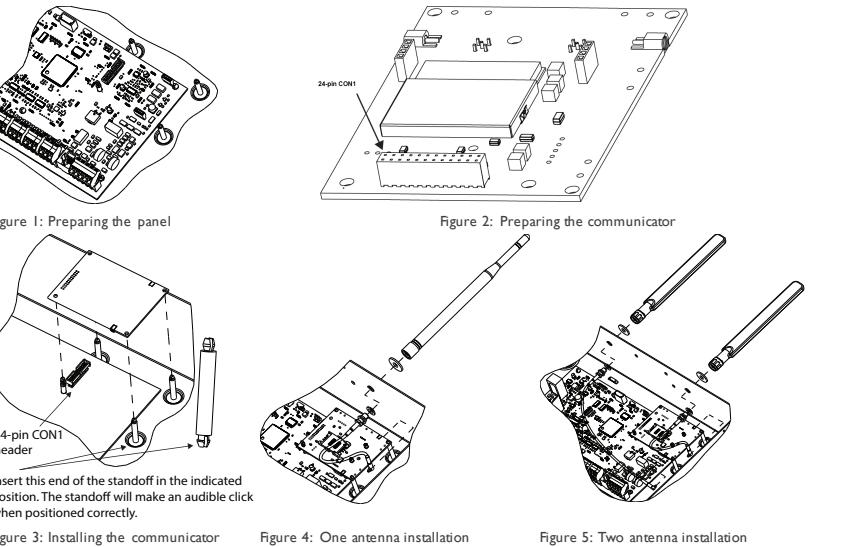
To open the unit, complete the following step:

- Disconnect power from the panel by removing the power cord and battery.

Installing the communicator

To install the communicator, complete the following steps.

- On the new communicator, if required, remove the protective metal tab from the 24-pin CON1 header.
- Align the three holes on the communicator module with the plastic pegs on the alarm panel, ensuring the 24-pin connectors are aligned with matching pins on the panel. See Figure 3.
- Press the module carefully onto the alarm panel.
- To attach the antenna, place a nylon washer on either side of the hole on the panel and screw the cable into the antenna. See Figures 4 and 5.
- Gently press the main antenna cable connector into the jack labeled JK2 – Main Ant on the PCB. Repeat this step for the diversity antenna, and connect to the jack labeled JK1 – Div Ant on the PCB.
- Apply power to the panel by plugging in the power supply module.



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DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

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AVISO SOBRE DISPOSITIVOS DIGITALES DE CLASE B CONFORME A LA FCC Este equipo ha sido probado y cumple con los límites de un dispositivo digital de Clase B, conforme con la Sección 15 del Reglamento de la FCC. Estos límites están diseñados para proporcionar una protección razonable contra la interferencia dañina en una instalación residencial. El uso de este equipo puede generar e irradiar energía de radiofrecuencia y, si no se instala y utiliza de acuerdo con las instrucciones, puede causar interferencia perjudicial para las comunicaciones de radio. Sin embargo, no hay garantía de que no se produzcan interacciones en una instalación en particular. Si este equipo genera una interferencia dañina a la recepción de radio y televisión, lo que se puede determinar al apagar y encender el equipo, se recomienda al usuario intentar corregir la interferencia llevando a cabo una o más de las siguientes medidas:

- Reorienta o reubique la antena de recepción.
- Aumenta la separación entre el equipo y el receptor.
- Conecte el equipo a una toma de corriente en un circuito diferente al que el receptor está conectado.
- Consulte al distribuidor o técnico de radio/teléfono experimentado para obtener asistencia.

CAN ICES-3 (B) / NMB-3 (B)

Modelo LE9080 FCC ID: F5318LE9080 IC: 160A-LE9080

Modelo 3G9080 FCC ID: F53173G9080 IC: 160A-3G9080

Modelo 3H9080 FCC ID: F53183H9080 IC: 160A-3H9080

Nota: Sólo los modelos LE9080, 3G9080 y 3H9080 tienen la certificación UL / ULC.

AVISO INALÁMBRICO DE LA FCC/ISED DE CANADÁ

Este equipo cumple con los límites de exposición a la radiación de la FCC e ISED de Canadá establecidos para un entorno no controlado.

La antena deberá ser instalada y operada con una distancia mínima de 20 cm entre el radiador y su cuerpo.

Cet appareil est conforme aux limites d'exposition aux rayonnements de la ISED Canada pour un environnement non contrôlé. L'antenne doit être installé de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps.

La ganancia de la antena debe ser de menos de: Gain de l'antenne doit être ci-dessous:

Frequency band/Bande de fréquence LE9080 3G9080 3H9080

GSM850/FDD V	1,3 dBi	1,4 dBi	1,3 dBi
PCS1 900/FDD ii	6,8 dBi	6,7 dBi	
LTE (B2)	6,8 dBi		
LTE B4	4,6 dBi		
LTE B5/B12/B13	1,3 / 1,2 / 2,2 dBi		

Este transmisor no debe ser colocado u operado en conjunto con ninguna otra antena o transmisor. L'émetteur ne doit pas être colocé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

ETIQUETA FCC / IC: Este transmisor modular LE9080, 3G9080 o 3H9080 está etiquetado con su propio ID e IC de la FCC. Cuando el módulo está instalado dentro del dispositivo host HS3256, HS3128 o HS3032 y la ID / IC de la FCC del módulo no está visible, el dispositivo host mostrará la etiqueta provista referente a la ID e IC de la FCC del módulo adjunto. Esta etiqueta se envía junto con el módulo y es responsabilidad del integrador aplicarla en la parte exterior del gabinete como se muestra en la siguiente figura. Le modulo émetteur LE9080, 3G9080 o 3H9080 est étiqueté avec son propre ID FCC et le numéro IC. Lorsque le module est installé à l'intérieur du dispositif hôte HS3256, HS3128 ou HS3032 et la FCC ID / IC du module ne soit pas visible, le dispositif d'accueil affiche l'étiquette fournie se référant à l'ID FCC et IC du module ci-joint. Ce label est livré avec le module et il est de la responsabilité de l'intégrateur de l'appliquer à l'extérieur de l'enceinte, comme indiqué dans la figure suivante.

El modelo LE9080 contiene la ID de FCC: F5318LE9080 y la IC: 160A-LE9080

El modelo 3G9080 contiene la ID de FCC: F53173G9080 y la IC: 160A-3G9080

El modelo 3H9080 contiene la ID de FCC: F53183H9080 y la IC: 160A-3H9080



DECLARACIÓN DE CONFORMIDAD SIMPLIFICADA: Por la presente, Tyco Safety Products Canada Ltd declara que que este equipo radioeléctrico cumple con la Directiva 2014/53/EU. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet.

Nota: Aplica solo para los modelos 3G9080-EU y GS9080.

Modelo 3G080-EU - <http://dsc.com/pdf/1804001>

Modelo GS9080 - <http://dsc.com/pdf/1804002>

Bandas de frecuencia de funcionamiento y potencia máxima de radiofrecuencia transmitida:

Banda de frecuencia (MHz) Potencia máxima

EGSM900 890.0 - 914.8 Class 4 (2 W) para GSM: 900 MHz

Banda de frecuencia (MHz)

EGSM900 880.2 - 889.8

DSC1800 1710.2 - 1784.8

WCDMA (banda VIII) 882.4 - 912.6

Potencia máxima

Class I (1 W) para GSM: 1800 MHz

Class E2 (0,5 W) para EDGE: 900 MHz

Class E2 (0,4 W) para EDGE: 900 MHz

Dirección de contacto única en Europa: Tyco Safety Products, Volaweg 20, 6101 XK Echt, Países Bajos.

Notas para instalaciones conformes a EN50136-1: 2012 (aplicable solo a los modelos 3G9080-EU y GS9080): los modelos 3G9080-EU y GS9080 se conectan a paneles de control de alarma DSC compatibles HS3128, HS3032 utilizando la interfaz en serie de propiedad de DSC. El módulo opera en modo de tránsito y confirma la alarma hacia el panel de control compatible después de que se haya recibido una confirmación desde el receptor de alarma compatible.

1. El módulo 3G9080-EU, GS9080 es monitoreado por el panel de control y se programa a través del menú de programación disponible desde el teclado compatible conectado al panel de control de alarma HS3128, HS3032. El módulo se conecta según se muestra en el diagrama incluido en este manual.

2. La ruta Celular HSPA 3G/GSM es inmune a campos de RF conducidos y radiados con niveles de hasta 10 V/m conforme a las pruebas de la Norma EN50130-4.

3. El módulo 3G9080-EU, GS9080 cumple con los niveles de emisiones radiadas para equipos de Clase B según las normas EN61000-6-3 / EN55032 / CISPR32.

4. El módulo 3G9080-EU tiene una sola ruta de comunicación: HSPA 3G o GSM. Ruta de comunicación Celular que utiliza 900 / 1800 / 2100MHz de la Red Celular Pública. La ruta de comunicación HSPA 3G / GSM celular que se puede usar en un ATS con las siguientes categorías:

- modo de Ruta única SP4 o
- el modo de Ruta dual DP2 en combinación con el panel de control compatible HS3128 / HS3032 integrado al comunicador PSTN o
- el modo de Ruta dual DP3 junto con el panel de control compatible HS3128 / HS3032 integrado al comunicador de Ethernet

5. Los modelos 3G9080-EU y GS9080 utilizan autenticación secuencial para la seguridad de sustitución y cifrado AES de 128 bits para la seguridad de la información. La clave de cifrado AES de 128 bits está validada por NIST, Certificado No. 5372.

6. El 3G9080-EU, GS9080 ha sido probado para cumplir con los siguientes estándares aplicables: EN50136-2:2013, EN50131-10:2014, Grado 3, Clase II, configuración ATS: SP3, DP2, DP3. Para instalaciones que cumplen con la norma EN50131-1:2006/A1:2009/A2:2017, se deberán configurar las siguientes opciones de programación según se describe: La supervisión de laudos se establece en 180 segundos para la configuración SP4 y DP3. Cumple con las normas EN50131-1:2006/A1:2009/A2:2017, EN50131-10:2014 y EN50136-2:2013 y requisitos para equipos de Grado 3, Clase II, configuración ATS: SP4, DP2, DP3. La configuración junto con la ventana de supervisión del receptor ARC se establece en 180 segundos. Para la configuración DP2, la supervisión debe establecerse en 30 minutos. Los modelos 3G9080-EU y GS9080 han sido certificados bajo CERTALARM por Telefónica de acuerdo con las normas EN50131-1:2006/A1:2009/A2:2017, EN50131-10:2014 y EN50136-2:2013 y cumplen con los requisitos para equipos de Grado 3, Clase II, configuración ATS: SP4, DP2, DP3.

Modelo

Mercado

Frequência operacional (MHz)

3G - B8: UL: 880 - 915, DL: 925 - 960

BI: UL: 1920 - 1980, DL: 2110 - 2170

Ganho típico da antena (dBi)

2,0

6,7/2,8

Inserir ou remover o cartão SIM

⚠Tenha cuidado ao manusear o cartão SIM. Para evitar danos ao cartão SIM, verifique se não há contatos dobrados ou arranhados.

Para inserir ou remover o cartão SIM, execute os seguintes passos:

- Insira ou remova o cartão SIM deslizando-o para dentro ou para fora do suporte. A ranhura no canto do cartão SIM deve ser alinhada à ranhura da base do suporte.

Instalação e substituição do comunicador

Note: Antes de instalar o comunicador, confirme com o provedor de serviços local se existe uma rede disponível e ativa na área.

Abrir a unidade

Para abrir a unidade, siga estas etapas:

- Desligue a partir do painel, removendo o cabo de alimentação e a bateria.

Instalação do comunicador

Para instalar o servidor, execute as seguintes etapas:

1. Se necessário, no novo comunicador, remova a aba de metal protetora do cabeçote de 24 pinos CON1.
2. Alineie os três orifícios do módulo comunicador com as presilhas plásticas no painel de alarme, certificando-se de que os conectores de 24 pinos estejam alinhados com os pinos correspondentes no painel. Ver Figura 3.
3. Pressione o módulo cuidadosamente sobre o painel de alarme.
4. Para fixar a antena, coloque uma anilha de nylon em ambos os lados do orifício no painel e aperte o cabo na antena. Consulte as Figuras 4 e 5.
5. Pressione cuidadosamente o conector do cabo da antena principal na tomada rotulada JK2 – Antena principal no PCB. Repita esta etapa para a antena de backup, e conecte-se a tomada rotulada JK1 – Antena Div no PVVB.
6. Ligue o painel conectando o módulo de alimentação.

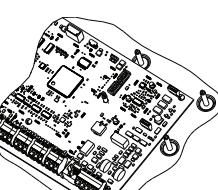


Figura 1: Preparando o painel

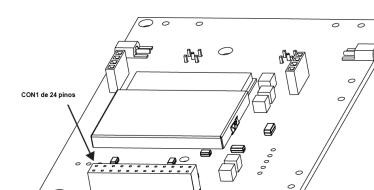
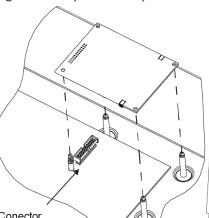


Figura 2: Preparando o comunicador



Conector CON1 de 24

Insera esta extremidade do espacador na posição indicada. O espacador fará um clique audível quando posicionado corretamente.

Figura 3: Instalando o comunicador

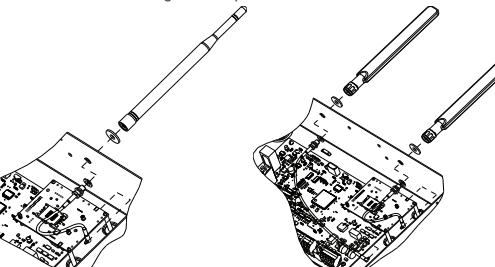


Figura 4: Instalação de uma antena

Figura 5: Instalação de duas antenas

Substituição do comunicador

Note: Para painéis com um comunicador instalado, você pode usar a almofada de espuma da unidade ou a almofada de espuma fornecida no kit independente de comunicador celular.

Para substituir o comunicador, execute as seguintes etapas:

1. Desligue a partir do painel, removendo o transformador e a bateria.
2. Retire com cuidado os cabos da antena principal e da diversidade do PCB.
3. Solte os espacadores e puxe para cima o comunicador para removê-lo do cabeçote.
4. Execute as etapas de 1 a 6 em Instalação do comunicador.

Configuração do comunicador

Para obter informações sobre como configurar o comunicador, consulte o Manual de referência do sistema de alarme PowerSeries Pro.

Teste de posicionamento

Para garantir que o comunicador esteja ativo com uma conexão de sinal forte, coloque o painel PowerSeries Pro no local pretendido e execute as etapas a seguir.



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