High Sec End of Line Module

The Gallagher High Sec ELM protects important systems by monitoring communications between alarm sensors and controller technology. Regular heartbeats ensure alarms are raised in the event of an attack on the integrity of the network.

Gallagher High Sec End Of Line Module

The Gallagher End of Line Module (ELM) is a small PCB encapsulated in a protective potting resin and plastic casing, with a unique HBUS device serial number.

The module plastic measures 32mm x 17mm x 10mm, and is designed to fit inside the tamper-proofed housing of a high grade alarm sensing device (i.e. PIR, contact sensor), or in a tamper-proofed junction box. Benefits of the Gallagher ELM are shown below:

Compliance

Combining Gallagher Command Centre with the Gallagher High Sec ELM, provides compliance to the AS/NZS 2201 Class 5 intruder alarm standard.

Security

The High Sec ELM delivers full end-to-end authentication and encryption for a site's security system by securing a weak link in most security systems (non-authenticated sensor inputs communicating unencrypted with controllers).

The ELM sends regular heartbeats, ensuring that alarms are raised if communications with the ELM are severed.

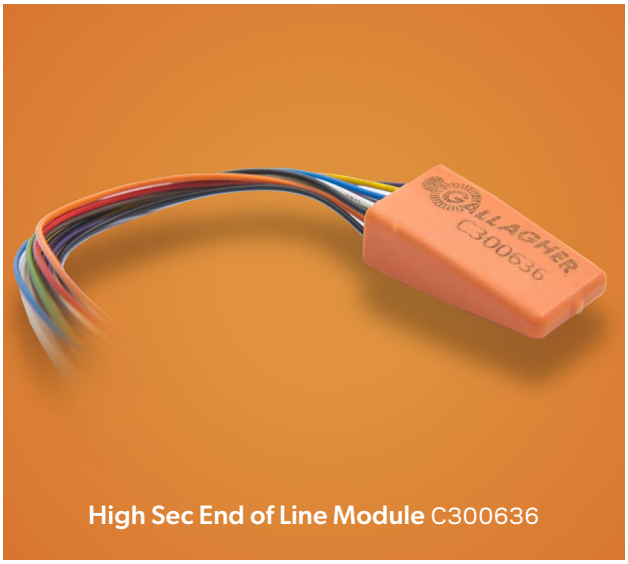
Ease of installation

The High Sec ELM's small form factor makes it easy to install into an existing sensor device or tamperproofed junction box, with support for sensor walk-test functionality removing the need to run additional wiring.

Leveraging HBUS device flexibility, the sensors can be daisy chained back to the High Sec Controller 6000 or star wired back to the controller's 8H or 4H HBUS Module, allowing re-use of existing site wiring.

HBUS benefits

Delivering all the benefits of HBUS devices, the High Sec ELM has field upgradeable software, plug and play authentication for quick and secure installation, end-to-end encryption, and multiple device support on the same wiring run (up to 50 modules per controller).



High Sec End of Line Module C300636

Why do I need an High Sec ELM?

High value and sensitive assets are normally protected by intruder alarm systems, using 3-4 state analogue monitoring to detect sensor tampering.

Without a High Sec ELM, advanced attack methods can defeat these detection methods, rendering your high value assets unprotected.

The High Sec ELM uses the latest digital encryption security standards to protect against all known vulnerabilities, ensuring alarms are always reported should your sensors come under attack.

Prerequisites

Command Centre v7.50.530 (or later) is required to support the High Sec ELM. The High Sec Controller 6000 is required for communication with the High Sec ELM.

GALLAGHER Security

Encrypted communications
The High Sec ELM authenticates with the controller and establishes encrypted communications. The module also sends regular heartbeats to ensure the connection with the controller is continuously monitored.

Physical input connections
The High Sec ELM supports the following physical input connections with the sensor:

- Alarm contact – alerts the system that the sensor has detected an alarm condition (e.g. a PIR detecting someone walking in front of it)
- Tamper contact - alerts the system that the sensor has been tampered (e.g. someone has removed the sensor tamper-proof cover to gain access to the sensor or end-of-line module)
- Anti-masking contact - Alerts the system that an attempt has been made to mask the sensor (e.g. someone covering a PIR when the area is disarmed). This is available for sensor devices that have an anti-mask output that can be directly wired into the ELM.

Walk-test output
The High Sec ELM also supports a dedicated walk-test output, which eliminates the need for separate cabling to support walk-test functionality on a sensor. The walk-test output has been integrated into standard Command Centre test mode functionality, is supported on the T20 Terminal, and is compatible with specific requirements of high grade alarm sensors.

Licensing and version support
The High Sec End of Line Module is a non-licensed product, supported in Command Centre build v7.50.530 and Controller build vGR7.50//b144 or later. A High Sec Controller 6000 is required to communicate with the High Sec ELM, due to the high security communications elements associated with the ELM.

AS/NZS Intruder Alarms Standard
AS/NZS 2201 comprises a series of Intruder Alarms standards which include mandatory, optional and advisory specifications applicable to all elements of an intruder alarm system.

The objective of the standard is to assist insurers, alarm companies, equipment manufacturers, clients and the police in achieving a complete and accurate statement for an intruder alarm system required in particular premises.

The standard classifies alarm system equipment functionality and performance, from Class 1 (lowest security level) to Class 5 (highest security level). As part of Gallagher's Class 5 Solution, the High Sec ELM complies to all equipment requirements specified for Class 5 compliant alarm system installations.

Technical Specifications

Product numbers	
C300636	High Sec End Of Line Module

High Sec ELM		
Product detail	Maximum # of ELM's per HBUS circuit: 50	
	Maximum # of ELM's per High Sec Controller 6000: 50	
Power	Current:	15mA
Environmental limits	Operating temperature:	-10°C to +70°C
	Humidity:	95% non-condensing
Communications	RS485 at 1Mb/s	
Standards compliance	CE, RCM, AS/NZS 2201 Compliance and certification information is available on our support site or by contacting Gallagher	
Dimensions	Height x Width x Depth:	32 x 17 x 10mm (1.26 x 0.67 x 0.4in)

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