ARGUS SECURITY
intelligent fire solutions

PRODUCT DATASHEET

SG100-IS

WIRELESS INTRINSICALLY SAFE OPTICAL SMOKE DETECTOR

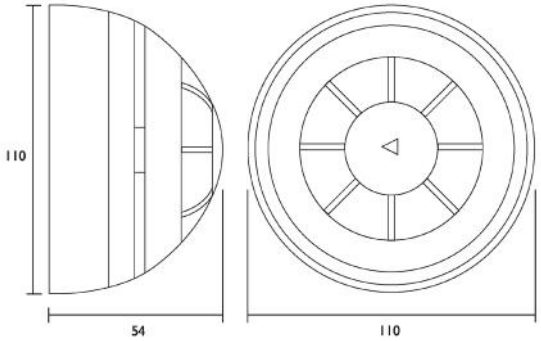
The SG100-IS Intrinsically Safe Wireless Optical Smoke Detector is a fully intelligent device which is compatible with all of the Argus Wireless Translator and Expander Modules and has been approved for use in Category 1, 2 or 3 hazardous atmospheres. Its fully wireless capability means it requires no special wiring or barriers making installation quick, safe and cost effective. The Argus range of wireless detectors are third party approved to EN54 and utilise the latest cutting edge technologies and features. The well proven adaptive radio signal processing algorithms combined with the latest optical detection chamber design ensure the highest levels of life safety and system reliability.

Important Note: Translators/Expanders must be sited in safe areas. Refer to Argus Security Application Guide for IS Wireless Devices to aid safe implementation.

KEY FEATURES

- ATEX & IECEx Type Approved
- ATEX Code: Ex II 1G
- Classification: Ex ia op is IIC T5 Ga (-10˚C ≤ Ta ≤ +55˚C)
- Bi-directional wireless communication
- Certified to EN54
- Up to 3 year battery life
- 5 year product warranty
- Uses standard low cost lithium battery
- Quick and safe installation

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max radiated power	5dBm (3mW)
Operating channels	Multiple
Dimensions	110mm x 65mm
Primary battery	CR123A (3 V & 1.2 Ah)
Secondary battery	CR2032A (3 V & 0.24 Ah)
Weight (without batteries)	190g
Operating Temperature (no icing)	-10°C to +55°C
Max humidity (non condensing)	95% RH
IP rating	40
Primary battery lifespan (typical)	3 years
Secondary battery lifespan (typical)	2 months

Note: Certified device performance may vary depending on the approval body.

STANDARDS & APPROVALS

- BS EN54-7: Smoke Detectors - Point Detectors using scattered light, transmitted light or ionisation
- BS EN 54-25: Components using radio links and system requirements

Baseefa16ATEX0111X

BAS16.0050X

1180/0051

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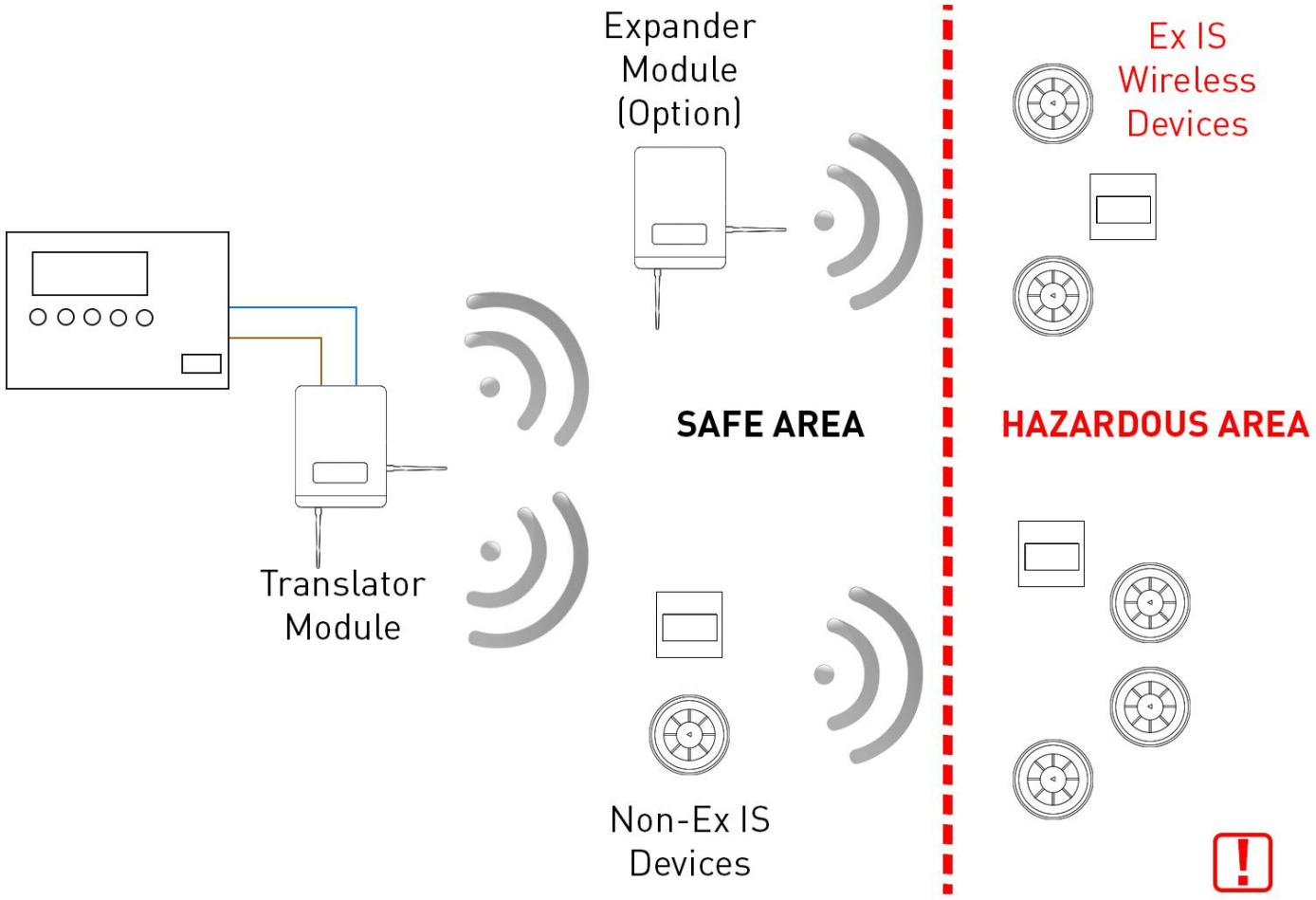
PRODUCT DATASHEET : SG100-IS

CERTIFICATION REQUIREMENTS

- IEC 60079-0:2011 / EN 60079-0:2012+A11:2013
- IEC 60079-11:2011 / EN 60079-11:2012
- IEC 60079-28:2015 / EN 60079-28:2015

SYSTEM DESIGN

Example of Wireless System Design Using Ex IS Certified Devices



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LED INDICATION

The device is equipped with a tri-colour LED (red/green/amber) that provides visual indication for functional conditions and battery levels as indicated in the sections below:

OPERATIONAL STATUS INDICATIONS

Status	Amber LED	Green LED	Red LED
Power Up	**Green** Flash/**Amber** 2 Second On/**Red** Flash		
Linking to System	**Green** Flash/**Red** 1 Second On & 0.1 Second Off/**Green** & **Red** Alternate		
Link Procedure has Failed	-	-	Continuous
Normal condition	-	-	-
Alarm condition	-	-	0.5 Second On & 0.5 Second Off
Main battery fault	0.1 Second On & 5 Seconds Off	-	-
Secondary battery fault	-	0.1 Second On & 5 Seconds Off	-
Both batteries fault	0.1 Second On & 5 Seconds Off	0.1 Second On & 5 Seconds Off	-
Other Fault	Sequential bi-colour flashing		-
Tamper	-	-	-
Loss of radio link with Translator/ Expander	-	-	-

COMMUNICATION QUALITY ASSESSMENT

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

Communication Quality (dB)	Level	Green LED	Red LED
No connection	Fail - 0 - No Connection	-	Two flashes
Link margin is less than 10 dB	Fail - 2 - Very Poor	-	One flash
Communication with link margin from 10 dB to 20 dB	Fail - 3 - Poor	One flash	
Robust communication with link margin over 20 dB	Pass - 4	Two flashes	

Note: The "program" switch must be returned to the 1 position for normal device operation

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PRODUCT DATASHEET

SG200-IS

WIRELESS INTRINSICALLY SAFE MULTI CRITERIA DETECTOR

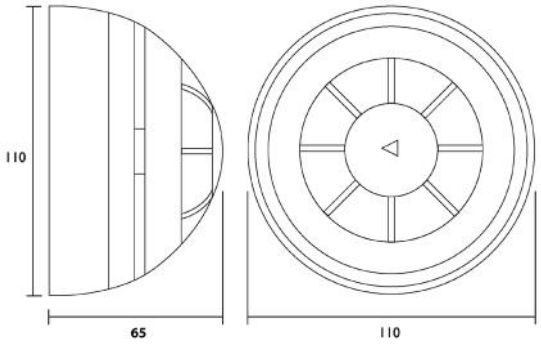
The SG200-IS Intrinsically Safe Wireless Multi Criteria Detector is a fully intelligent device which is compatible with all of the Argus Wireless Translator and Expander Modules and has been approved for use in Category 1, 2 or 3 hazardous atmospheres. Its fully wireless capability means it requires no special wiring or barriers making installation quick, safe and cost effective. The Argus range of wireless detectors are third party approved to EN54 and utilise the latest cutting edge technologies and features. The well proven, adaptive radio signal processing algorithms combined with the latest multi criteria sensing technology ensure the highest levels of life safety and system reliability.

Important Note: Translators/Expanders must be sited in safe areas. Refer to Argus Security Application Guide for IS Wireless Devices to aid safe implementation.

KEY FEATURES

- ATEX & IECEx Type Approved
- ATEX Code: Ex II 1G
- Classification: Ex ia op is IIC T5 Ga (-10˚C ≤ Ta ≤ +55˚C)
- Bi-directional wireless communication
- Certified to EN54
- Up to 3 year battery life
- 5 year product warranty
- Uses standard low cost lithium battery
- Quick and safe installation

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max radiated power	5dBm (3mW)
Operating channels	Multiple
Dimensions	110mm x 65mm
Primary battery	CR123A (3 V & 1.2 Ah)
Secondary battery	CR2032A (3 V & 0.24 Ah)
Weight (without batteries)	190g
Operating Temperature (no icing)	-10°C to +55°C
Max humidity (non condensing)	95% RH
IP rating	40
Primary battery lifespan (typical)	3 years
Secondary battery lifespan (typical)	2 months

Note: Certified device performance may vary depending on the approval body.

STANDARDS & APPROVALS

- BS EN 54-5: Heat Detectors - Point Detectors
- BS EN54-7: Smoke Detectors - Point Detectors using scattered light, transmitted light or ionisation
- BS EN 54-25: Components using radio links and system requirements

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PRODUCT DATASHEET : SG200-IS

LED INDICATION

The device is equipped with a tri-colour LED (red/green/amber) that provides visual indication for functional conditions and battery levels as indicated in the sections below:

OPERATIONAL STATUS INDICATIONS

Status	Amber LED	Green LED	Red LED
Power Up	**Green** Flash/**Amber** 2 Second On/**Red** Flash		
Linking to System	**Green** Flash/**Red** 1 Second On & 0.1 Second Off/**Green** & **Red** Alternate		
Link Procedure has Failed	-	-	Continuous
Normal condition	-	-	-
Alarm condition	-	-	0.5 Second On & 0.5 Second Off
Main battery fault	0.1 Second On & 5 Seconds Off	-	-
Secondary battery fault	-	0.1 Second On & 5 Seconds Off	-
Both batteries fault	0.1 Second On & 5 Seconds Off	0.1 Second On & 5 Seconds Off	-
Other Fault	Sequential bi-colour flashing		-
Tamper	-	-	-
Loss of radio link with Translator/ Expander	-	-	-

COMMUNICATION QUALITY ASSESSMENT

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

Communication Quality (dB)	Level	Green LED	Red LED
No connection	Fail - 0 - No Connection	-	Two flashes
Link margin is less than 10 dB	Fail - 2 - Very Poor	-	One flash
Communication with link margin from 10 dB to 20 dB	Fail - 3 - Poor	One flash	
Robust communication with link margin over 20 dB	Pass - 4	Two flashes	

Note: The "program" switch must be returned to the 1 position for normal device operation

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PRODUCT DATASHEET

SG350-IS

WIRELESS INTRINSICALLY SAFE HEAT DETECTOR

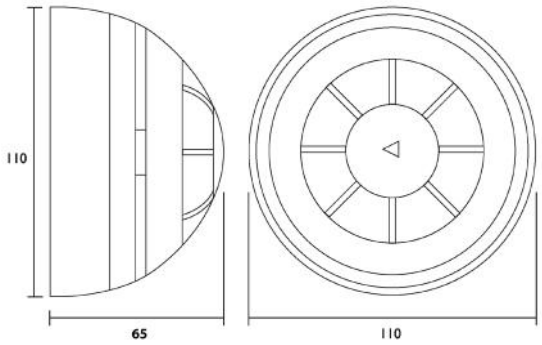
The SG350-IS Intrinsically Safe Wireless Optical Heat Detector is a fully intelligent device which is compatible with all of the Argus Wireless Translator and Expander Modules and has been approved for use in Category 1, 2 or 3 hazardous atmospheres. Its fully wireless capability means it requires no special wiring or barriers making installation quick, safe and cost effective. The Argus range of wireless detectors are third party approved to EN54 and utilise the latest cutting edge technologies and features. The well proven adaptive radio signal processing algorithms combined with the latest detector design ensure the highest levels of life safety and system reliability.

Important Note: Translators/Expanders must be sited in safe areas. Refer to Argus Security Application Guide for IS Wireless Devices to aid safe implementation.

KEY FEATURES

- ATEX & IECEx Type Approved
- ATEX Code: Ex II 1G
- Classification: Ex ia IIC T5 Ga (-10˚C ≤ Ta ≤ +55˚C)
- Bi-directional wireless communication
- Certified to EN54
- Up to 3 year battery life
- 5 year product warranty
- Uses standard low cost lithium battery
- Quick and safe installation

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max radiated power	5dBm (3mW)
Operating channels	Multiple
Dimensions	110mm x 65mm
Primary battery	CR123A (3 V & 1.2 Ah)
Secondary battery	CR2032A (3 V & 0.24 Ah)
Weight (without batteries)	190g
Operating Temperature (no icing)	-10°C to +55°C
Max humidity (non condensing)	95% RH
IP rating	40
Primary battery lifespan (typical)	3 years
Secondary battery lifespan (typical)	2 months

Note: Certified device performance may vary depending on the approval body.

STANDARDS & APPROVALS

- BS EN 54-5: Heat Detectors - Point Detectors
- BS EN 54-25: Components using radio links and system requirements

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PRODUCT DATASHEET : SG350-IS

LED INDICATION

The device is equipped with a tri-colour LED (red/green/amber) that provides visual indication for functional conditions and battery levels as indicated in the sections below:

OPERATIONAL STATUS INDICATIONS

Status	Amber LED	Green LED	Red LED
Power Up	**Green** Flash/**Amber** 2 Second On/**Red** Flash		
Linking to System	**Green** Flash/**Red** 1 Second On & 0.1 Second Off/**Green** & **Red** Alternate		
Link Procedure has Failed	-	-	Continuous
Normal condition	-	-	-
Alarm condition	-	-	0.5 Second On & 0.5 Second Off
Main battery fault	0.1 Second On & 5 Seconds Off	-	-
Secondary battery fault	-	0.1 Second On & 5 Seconds Off	-
Both batteries fault	0.1 Second On & 5 Seconds Off	0.1 Second On & 5 Seconds Off	-
Other Fault	Sequential bi-colour flashing		-
Tamper	-	-	-
Loss of radio link with Translator/ Expander	-	-	-

COMMUNICATION QUALITY ASSESSMENT

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

Communication Quality (dB)	Level	Green LED	Red LED
No connection	Fail - 0 - No Connection	-	Two flashes
Link margin is less than 10 dB	Fail - 2 - Very Poor	-	One flash
Communication with link margin from 10 dB to 20 dB	Fail - 3 - Poor	One flash	
Robust communication with link margin over 20 dB	Pass - 4	Two flashes	

Note: The "program" switch must be returned to the 1 position for normal device operation

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PRODUCT DATASHEET

SGCP100-IS

WIRELESS INTRINSICALLY SAFE CALL POINT

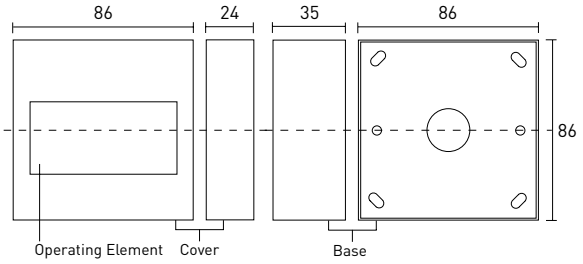
The SGCP100-IS Intrinsically Safe Wireless Call Point is a fully intelligent device which is compatible with all of the Argus Wireless Translator and Expander Modules and has been approved for use in Category 1, 2 or 3 hazardous atmospheres. Its fully wireless capability means it requires no special wiring or barriers making installation quick, safe and cost effective. The Argus range of wireless detectors are third party approved to EN54 and utilise the latest cutting edge technologies and features. The well proven,adaptive radio signal processing algorithms combined with well proven mechanical design ensure the highest levels of life safety and system reliability.

Important Note: Translators/Expanders must be sited in safe areas. Refer to Argus Security Application Guide for IS Wireless Devices to aid safe implementation.

KEY FEATURES

- ATEX & IECEx Type Approved
- ATEX Code: Ex II 1G
- Classification: Ex ia IIC T5 Ga (-10˚C ⩽ Ta ⩽ +55˚C)
- Bi-directional wireless communication
- Certified to EN54
- Up to 3 year battery life
- 5 year product warranty
- Uses standard low cost lithium battery
- Resettable operating element with local indication

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max radiated power	5dBm (3mW)
Operating channels	Multiple
Dimensions	86mm x 86mm x 59mm
Primary battery	CR123A (3 V & 1.2 Ah)
Secondary battery	CR2032A (3 V & 0.24 Ah)
Weight (without batteries)	190g
Operating Temperature (no icing)	-10°C to +55°C
Max humidity (non condensing)	95% RH
IP rating	40
Primary battery lifespan (typical)	3 years
Secondary battery lifespan (typical)	2 months

STANDARDS & APPROVALS

- BS EN 54-11: Manual Call Points
- BS EN 54-25: Components using radio links and system requirements

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ACCESSORIES

CI

PROTECTIVE CALL POINT COVER

The CI Protective Call Point Cover is an aesthetically pleasing low-cost clear cover.

Easily fitted to new or existing Argus Call Points, it dramatically reduces both misuse and the risk of accidental activation making it ideal for sports halls, manufacturing and processing facilities, and other high-traffic areas.

In addition, the Protective Call Point Cover ensures that two positive actions are required to activate the Call Point, making it suitable for territories where dual-activation is mandatory.

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PRODUCT DATASHEET

SGCP100

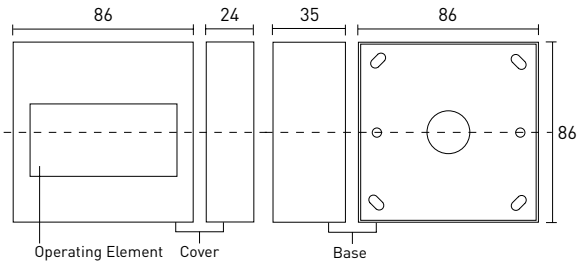
WIRELESS MANUAL CALL POINT

The SGCP100 Manual Call Point (MCP) is a fully intelligent device which is compatible with all Argus Translator and Expander Modules. The unit has a resettable plastic element, which displays a drop down warning flag when operated. A key is supplied with the MCP for reset and case opening. The unit can be fitted with an optional transparent cover for protection against accidental operation or with a weatherproof enclosure for use oudoors or in hostile environments.

KEY FEATURES

- Bi-directional wireless communication
- 3rd party approval to EN54-11 & EN54-25
- Resettable element
- Self optimising wireless frequency and amplitude algorithms
- Utilises standard low cost lithium battery technology
- 5 year expected battery life
- 5 year product warranty
- High reliability

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max radiated power	5dBm (3mW)
Radio signal modulation type	FSK
Operating frequency channels	7
Communication range with the Translator or Expander Module	⩽ 150 m (in open space)
IP rating	42
Dimensions	86 mm x 86 mm 59 mm
Weight (without batteries)	186g
Primary battery	CR123A (3 V & 1.2 Ah)
Secondary battery	CR2032A (3 V & 0.24 Ah)
Primary battery lifespan (typical)	5 years
Secondary battery lifespan (typical)	2 months
Operating Temperature (no icing)	-10°C to +55°C
Max humidity (non condensing)	95% RH

STANDARDS & APPROVALS

- BS EN 54-11: Manual Call Points
- BS EN 54-25: Components using radio links and system requirements

0832 928p

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ACCESSORIES

CI

PROTECTIVE CALL POINT COVER

The CI Protective Call Point Cover is an aesthetically pleasing low-cost clear cover.

Easily fitted to new or existing Argus Call Points, it dramatically reduces both misuse and the risk of accidental activation making it ideal for sports halls, manufacturing and processing facilities, and other high-traffic areas.

In addition, the Protective Call Point Cover ensures that two positive actions are required to activate the Call Point, making it suitable for territories where dual-activation is mandatory.

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PRODUCT DATASHEET

L-HT-SG

WIRELESS (LIBRA) CLASS P HEAT DETECTOR

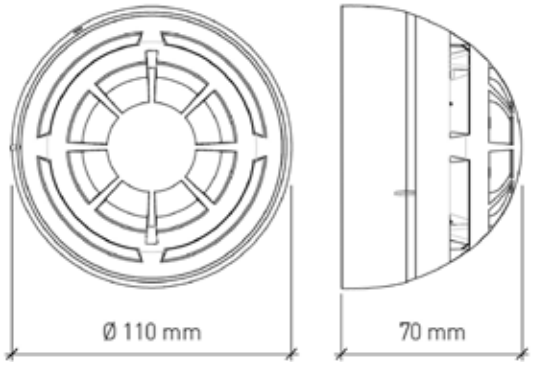
The L-HT-SG is the latest in wireless heat detector technology. It is a fully intelligent device and compatible with all Argus wireless Translator and Expander modules. The detector is designed for open area protection giving the best possible warning of a fire condition in locations where smoke detection technology is not suitable. The well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.

*For BASE COMPATIBILITY see page 3

KEY FEATURES

- Twin alarm LEDs for 360 deg visibility
- Internal algorithm processing optimises performance
- 3rd party approved
- 8 year battery life
- Utilises standard low cost lithium battery technology
- Bi-directional wireless communications
- Compatible with all Argus translators and Expanders
- Multiple sensitivity settings
- 5 year product warranty
- Device identification tab

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max. radiated power	14dBm (25mW)
Operating channels	Multiple
Class A1R	(58°C max) or
Class BS high temp	(78°C)
Dimensions	110mm x 70mm
Batteries	2 x CR123A
Weight	190g
Temperature Range (no icing)	-10°C to +55°C **
Max tolerated humidity (non condensing)	95% RH
IP Rating	40

**Performance may vary at extremes of range

STANDARDS & APPROVALS

- BS EN 54-5 Class P: Heat Detectors. Point Detectors
- BS EN54-25: Components using radio links

0832 928j

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LED INDICATION

The device is equipped with 2 tri-colour LEDs (red/green/amber) that provide visual indication for functional conditions and battery levels as indicated in the sections below:

OPERATIONAL STATUS INDICATIONS

Power Up	-	1 Second On then	4 x 0.5 Seconds On
Linking to System	-	Blinking until link is complete	-
Link Procedure has Failed	-	-	Continuous
Normal condition	-	-	-
Alarm condition	-	-	0.5 Second On & 0.5 Second Off
Main battery fault	0.1 Second On & 5 Seconds Off	-	-
Secondary battery fault	-	0.1 Second On & 5 Seconds Off	-
Both batteries fault	0.1 Second On & 5 Seconds Off	0.1 Second On & 5 Seconds Off	-
Other Fault	Sequential bi-colour flashing		-
Tamper	-	-	-
Loss of radio link with Translator/ Expander	-	-	-

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PRODUCT DATASHEET : L-HT-SG

COMMUNICATION QUALITY ASSESSMENT

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

Communication Quality (dB)	Level	Green LED	Red LED
No connection	Fail	-	Two flashes
Link margin is less than 10 dB	Poor - not acceptable	-	One flash
Communication with link margin from 10 dB to 20 dB	Medium/Low - not recommended	One flash	-
Communication with link margin from 20 dB to 30 dB	Good	Two flashes	-
Robust communication with link margin over 30 dB	Excellent	Two flashes	-

Note: The "program" switch must be returned to the 1 position for normal device operation

BASE COMPATIBILITY

This device is supplied with a standard base and is compatible with the following Argus base sounders:

- SGRBS100/L Wireless Sounder Base
- SGRBS100-AV/L Wireless Sounder Base Visual Indicator

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PRODUCT DATASHEET

L-MC-SG

WIRELESS (LIBRA) MULTI-CRITERIA DETECTOR

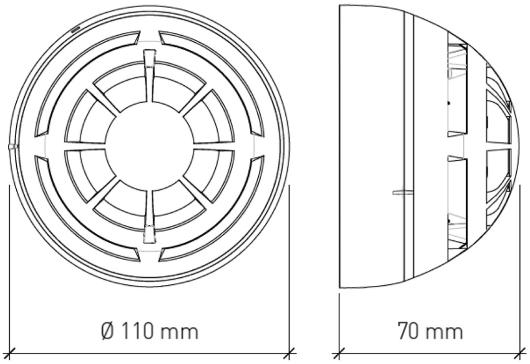
The L-MC-SG is the latest in wireless multi-criteria detector technology. It is a fully intelligent device and compatible with all Argus wireless Translator and Expander modules. The detector is designed for open area protection and combines both dual-path smoke and heat detection technologies for improved performance, whilst maintaining the high levels of unwanted alarm rejection. Utilising well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.

*For BASE COMPATIBILITY see page 3

KEY FEATURES

- Advanced dual-path optical chamber design
- Internal algorithm processing optimises performance
- 3rd party approved
- Up to 10 year battery life
- Utilises standard low cost lithium battery technology
- Multiple smoke and heat sensitivity settings
- Bi-directional wireless communications
- Compatible with all Argus translators and Expanders
- Complies with the latest multi-sensor standard EN 54-29
- 5 year product warranty
- Device identification tab
- Twin alarm LEDs for 360° visibility

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max. radiated power	14dBm (25mW)
Operating channels	Multiple
Choice of sensitivity settings	3 smoke/2 heat
Dimensions	110mm x 70mm
Batteries	2 x CR123A
Weight	190g
Temperature Range (no icing)	-10°C to +55°C **
Max tolerated humidity (non condensing)	95% RH
IP Rating	40
Magnet test	Yes

**Performance may vary at extremes of range

STANDARDS & APPROVALS

- BS EN 54-5 Class P: Heat Detectors
- BS EN 54-7 Smoke Detectors
- BS EN54-25: Components using radio links
- BS EN54-29: Multi-sensor fire detectors
- CEA4021

0832 928m

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LED INDICATION

The device is equipped with 2 tri-colour LEDs (red/green/amber) that provide visual indication for functional conditions and battery levels as indicated in the sections below:

OPERATIONAL STATUS INDICATIONS

Status	Amber LED	Green LED	Red LED
Power Up	-	1 Second On then	4 x 0.5 Seconds On
Linking to System	-	Blinking until link is complete	-
Link Procedure has Failed	-	-	Continuous
Normal condition	-	-	-
Alarm condition	-	-	0.5 Second On & 0.5 Second Off
Main battery fault	0.1 Second On & 5 Seconds Off	-	-
Secondary battery fault	-	0.1 Second On & 5 Seconds Off	-
Both batteries fault	0.1 Second On & 5 Seconds Off	0.1 Second On & 5 Seconds Off	-
Other Fault	Sequential bi-colour flashing		-
Tamper	-	-	-
Loss of radio link with Translator/ Expander	-	-	-

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PRODUCT DATASHEET : L-MC-SG

COMMUNICATION QUALITY ASSESSMENT

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

Communication Quality (dB)	Level	Green LED	Red LED
No connection	Fail	-	Two flashes
Link margin is less than 10 dB	Poor - not acceptable	-	One flash
Communication with link margin from 10 dB to 20 dB	Medium/Low - not recommended	One flash	-
Communication with link margin from 20 dB to 30 dB	Good	Two flashes	-
Robust communication with link margin over 30 dB	Excellent	Two flashes	-

Note: The "program" switch must be returned to the 1 position for normal device operation

BASE COMPATIBILITY

This device is supplied with a standard base and is compatible with the following Argus base sounders:

- SGRBS100/L Wireless Sounder Base
- SGRBS100-AV/L Wireless Sounder Base Visual Indicator

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PRODUCT DATASHEET

SGWE

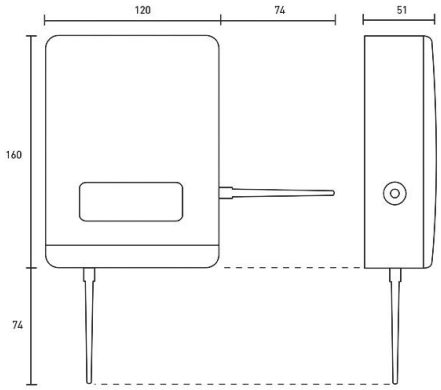
WIRELESS EXPANDER MODULE

The Argus SGWE Expander Module is compatible with all Argus Wireless intelligent translators and the Argus Conventional Expander. The unit provides a convenient method to increase radio communication range beyond that possible from a single translator by relaying the radio communication to further expanders or directly to the wireless field devices. This functionality makes it possible to build large fully wireless systems or add wireless devices into areas where cabling for translators is difficult or impossible. All expanders are fully monitored ensuring the highest levels of life safety and reliability are maintained.

KEY FEATURES

- Compatible with static and conventional translators
- 3rd party Approval to EN54-18 and EN54-25
- Bi-directional wireless communication
- 5 year product warranty
- IP protection for mounting in challenging environments
- Low current consumption
- Supports full device intelligence
- Capability for 32 wireless field devices per expander
- Proven wireless technology

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 MHz - 870 MHz
Power supply range	9Vdc – 30Vdc
Typical current consumption	15mA (@24Vdc)
Max radiated power	5dBm (3mW)
Operating frequency channels	7
Communication range with a Translator/Expander Module	⩽ 250m (in open space)
Communication range with wireless field devices	⩽ 150m (in open space)
Max. no. of devices (per Expander)	Refer to translator spec
Temperature range (no icing)	-10°C to 55°C
Max humidity (non condensing)	95% (RH)
IP rating	65
Weight	300 g

Note: Certified device performance may vary depending on the approval body.

STANDARDS & APPROVALS

- BS EN 54-18
  Input / Output Devices
- BS EN 54-25
  Components using radio links and system requirements

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SGWE_AS_DSH_003-2

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PRODUCT DATASHEET

L-OP-SG

WIRELESS (LIBRA) DUAL OPTICAL SMOKE DETECTOR

The L-OP-SG wireless dual optical smoke detector is the latest in wireless smoke detector technology. It is a fully intelligent device and compatible with all Argus wireless Translator and Expander modules. The detector is designed for open area protection and utilises dual-path optical smoke detection technologies and algorithms for improved performance, whilst maintaining the high levels of unwanted alarm rejection. Utilising well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.

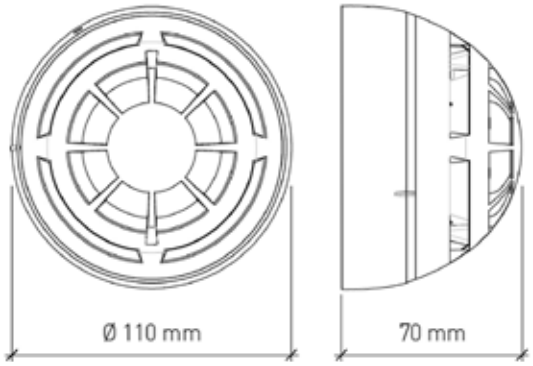
*For BASE COMPATIBILITY see page 3

ARGUS ALTAIR COMPATIBLE
ARGUS VEGA COMPATIBLE

KEY FEATURES

- Advanced dual path optical chamber design
- Internal algorithm processing optimises performance
- 3rd party approved
- 8 year battery life
- Utilises standard low cost lithium battery technology
- Bi-directional wireless communications
- Compatible with all Argus translators and Expanders
- Colour options available
- 5 year product warranty
- Device identification tab
- Dual angle scattering analysis
- Fast test feature for engineer testing

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Operating frequency range	865, 868 – 870 MHz
Max. radiated power	14dBm (25mW)
Operating frequency channels	7
Communications range (in open space)	<200m
Dimensions	110mm x 70mm
Temperature Range (no icing)	-10°C to +55°C **
Max tolerated humidity (non condensing)	95% RH
IP Rating	40

**Performance may vary at extremes of range

STANDARDS & APPROVALS

- BS EN 54-7 Smoke Detectors
- BS EN54-25: Components using radio links

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LED INDICATION

The device is equipped with 2 tri-colour LEDs (red/green/amber) that provide visual indication for functional conditions and battery levels as indicated in the sections below:

OPERATIONAL STATUS INDICATIONS

Status	Amber LED	Green LED	Red LED
Power Up	-	1 Second On then	4 x 0.5 Seconds On
Linking to System	-	Blinking until link is complete	-
Link Procedure has Failed	-	-	Continuous
Normal condition	-	-	-
Alarm condition	-	-	0.5 Second On & 0.5 Second Off
Main battery fault	0.1 Second On & 5 Seconds Off	-	-
Secondary battery fault	-	0.1 Second On & 5 Seconds Off	-
Both batteries fault	0.1 Second On & 5 Seconds Off	0.1 Second On & 5 Seconds Off	-
Other Fault	Sequential bi-colour flashing		-
Tamper	-	-	-
Loss of radio link with Translator/ Expander	-	-	-

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PRODUCT DATASHEET : L-OP-SG

COMMUNICATION QUALITY ASSESSMENT

It is possible to assess the wireless communication quality between the device and translator or expander using the built in test facility. After successful programming of the device, changing the "Program" switch to the "ON" position will set the device into test mode and the LED will start blinking according to the table below:

Communication Quality (dB)	Level	Green LED	Red LED
No connection	Fail	-	Two flashes
Link margin is less than 10 dB	Poor - not acceptable	-	One flash
Communication with link margin from 10 dB to 20 dB	Medium/Low - not recommended	One flash	-
Communication with link margin from 20 dB to 30 dB	Good	Two flashes	-
Robust communication with link margin over 30 dB	Excellent	Two flashes	-

BASE COMPATIBILITY

This device is supplied with a standard base and is compatible with the following Argus base sounders:

- SGRBS100/L Wireless Sounder Base
- SGRBS100-AV/L Wireless Sounder Base Visual Indicator

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PRODUCT DATASHEET

VW2W100

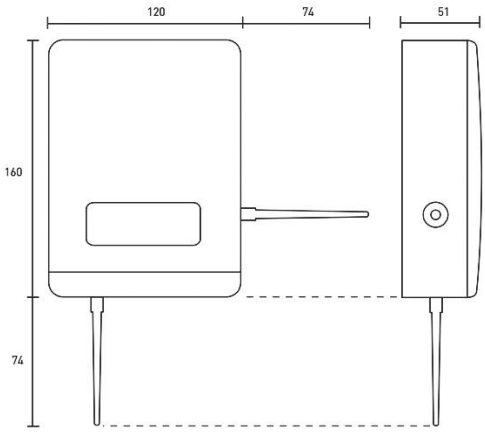
WIRELESS TRANSLATOR MODULE (STATIC)

The VW2W100 Translator Module is one of the core components of the Argus intelligent hybrid fire detection and alarm system. When connected on to a compatible loop, the unit is capable of linking up to 32 fully intelligent wireless field devices with the fire alarm system. The translator allows fully intelligent and seamless integration of the wireless devices alongside standard wired devices or can be used independently to form completely wireless systems. Using well-proven wireless technology and a patented orthogonal antenna design ensures the highest levels of life safety and system reliability.

KEY FEATURES

- Loop Powered
- Proven Wireless Technology
- 3rd party approval to EN54-17, EN54-18 and EN54-25
- Bi-directional wireless communication
- 5 year product warranty
- IP protection for challenging environments
- Compatible with up to 7 expander modules
- Low current consumption
- Supports full device intelligence
- Site programmable

TECHNICAL INFORMATION



TECHNICAL SPECIFICATION

Loop power supply range	18Vdc – 40Vdc
Operating frequency range	865, 868 – 870 MHz
Max radiated power	5dBm (3mW)
Operating frequency channels	7
Communication range with the Expander Module	⩽ 250m (in open space)
Communication range with wireless field devices	⩽ 150m (in open space)
IP rating	65
Dimensions (without antennae)	120 mm x 160 mm x 51 mm
Weight	300g
Operating Temperature	-10°C to +50°C
Max humidity (non condensing)	95% RH
Typical current consumption	20mA (@ 24V dc

Note: Certified device performance may vary depending on the approval body.

STANDARDS & APPROVALS

- BS EN 54-17: Short Circuit Isolators
- BS EN 54-18: Input/Output Devices
- BS EN 54-25: Components using radio links and system requirements

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