

## Certificate of Product Approval

Certificate Number: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

Unit 3, Horton Industrial Estate,  
West Drayton,  
Middlesex,  
UB7 8JD  
United Kingdom



is certified by BRE **Global** Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

#### Products

##### Control and Indicating Equipment

Esento Eclipse	Esento Excel
AlarmSense	AlarmSensePlus
Esento Evoque	ESEN-2
ESEN-4	ESEN-8
ESEN-12	ESEN-R-12MAR
ESEN-16	ESEN-24
ESEN-32	

(refer to Appendix for details)

#### Standards

**EN 54-2:1997 + A1:2006**

**EN 54-4:1997 + A1:2002 + A2:2006**

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Signed for BRE Global Ltd

E Mattie-Suleiman

Verifier

22 May 2020

Date of Issue

24 June 2010

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## Appendix to Certificate No: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

Certified Product	Description	LPCB Ref.No.
Esento Eclipse	<p>2 and 4 Zone Conventional Control and Indicating Equipment</p> <p>ECL-2</p> <p>Incorporating as modular units:                      TPC A01-E2 Eclipse two zone main PCB applicable on 2 zone CIE only                      TPC A02 Eclipse LED display PCB                      PSM1.5-24 Power supply 1.5A rated</p> <p>Certified with the following options with requirements from EN 54 Part 2:                      7.8 Output to fire alarm devices                      7.12.1 Dependency on more than one alarm signal type A                      10 Test condition</p> <p>ECL-4</p> <p>Incorporating as modular units:                      TPC A01-E4 Eclipse four zone main PCB applicable on 4 zone CIE only                      TPC A02 Eclipse LED display PCB                      PSM1.5-24 Power supply 1.5A rated</p> <p>Certified with the following options with requirements from EN 54 Part 2:                      7.8 Output to fire alarm devices                      7.12.1 Dependency on more than one alarm signal type A                      10 Test condition</p> <p>Note:                      1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	810a/03

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Certified Product	Description	LPCB Ref.No.
Esento Excel	<p>2, 4, 6, 8 and 12 Zone Conventional Control and Indicating Equipment Esento Excel 2 Zone Conventional Control Panel (Manufacturers internal code XLEN-2)</p> <p>Incorporating as modular units: TPCA01-X 2 XLEN 2 Zone Main PCB TPCA03 XLEN Display Board PSM3.0-24 Power Supply</p> <p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Esento Excel 4 Zone Conventional Control Panel (Manufacturers internal code XLEN-4) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board PSM3.0-24 Power Supply</p> <p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Esento Excel 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6H) Incorporating as modular units:</p>	810a/04

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Certified Product	Description	LPCB Ref.No.
	TPCA01-X2 XLEN 2 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply  Incorporating as optional module: TPCA05 XLEN Communications Board  Esento Excel 6 Zone Conventional Control Panel (Manufacturers internal code XLEN-6) Incorporating as modular units: TPCA01-X2 XLEN 2 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board PSM3.0-24 Power Supply  Incorporating as optional module: TPCA05 XLEN Communications Board  Esento Excel 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8) Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply	

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Certified Product	Description	LPCB Ref.No.
	<p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Esentto Excel 8 Zone Conventional Control Panel (Manufacturers internal code XLEN-8L)</p> <p>Incorporating as modular units: TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board PSM3.0-24 Power Supply</p> <p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Esentto Excel 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12)</p> <p>TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply</p> <p>Incorporating as optional module: TPCA05 XLEN Communications Board</p>	

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Certified Product	Description	LPCB Ref.No.
	<p>Esento Excel 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12L)</p> <p>TPCA01-X4 XLEN 4 Zone Main PCB</p> <p>TPCA03 XLEN Display Board</p> <p>TPCA04-S Two XLEN Standard 4 Zone Extension Board</p> <p>PSM3.0-24 Power Supply</p> <p>Incorporating as optional module:</p> <p>TPCA05 XLEN Communications Board</p> <p>Esento Excel 12 Zone Conventional Control Panel (Manufacturers internal code XLEN-12H)</p> <p>Incorporating as modular units:</p> <p>TPCA01-X4 XLEN 4 Zone Main PCB</p> <p>TPCA03 XLEN Display Board</p> <p>TPCA04-H Two XLEN High Spec 4 Zone Extension Board</p> <p>PSM3.0-24 Power Supply</p> <p>Incorporating as optional module:</p> <p>TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices</p> <p>7.11 Delays to outputs</p> <p>7.12.1 Dependency on more than one alarm signal type A</p> <p>7.12.2 Dependency on more than one alarm signal type B</p> <p>7.12.3 Dependency on more than one alarm signal type C</p>	

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Certified Product	Description	LPCB Ref.No.
	10 Test condition  Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	
AlarmSense	ALS-2 2 Zone AlarmSense Conventional Control and Indicating Equipment  ALS-4 4 Zone AlarmSense Conventional Control and Indicating Equipment  Incorporating as modular units: TPCA02 Eclipse LED Display & Controls Board TPCA06-A2 AlarmSense, 2 Zone main PCB TPCA06-A4 AlarmSense, 4 Zone main PCB (applicable on 4 zone CIE only) PSM1.5 - 24 Power supply 1.5A rated Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 10 Test condition  Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.	810a/05
AlarmSense Plus	2, 4, 6, 8 and 12 Zone AlarmSense Conventional Control and Indicating Equipment  ASP-2 2 Zone AlarmSense Conventional Control Panel	810a/06

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Certified Product	Description	LPCB Ref.No.
	<p>Incorporating as modular units:                      TPCA03 XLEN LED Display &amp; Controls Board                      TPCA06-P2 AlarmSense Plus, 2 Zone main PCB                      PSM3.0-24 Power Supply</p> <p>Incorporating as optional module:                      TPCA05 XLEN Communications Board                      ASP-4 4 Zone AlarmSense Conventional Control Panel</p> <p>Incorporating as modular units:                      TPCA03 XLEN LED Display &amp; Controls Board                      TPCA06-P4 AlarmSense Plus, 4 Zone main PCB                      PSM3.0-24 Power Supply</p> <p>Incorporating as optional module:                      TPCA05 XLEN Communications Board                      ASP-6 6 Zone AlarmSense Conventional Control Panel</p> <p>Incorporating as modular units:                      TPCA03 XLEN LED Display &amp; Controls Board                      TPCA06-P2 AlarmSense Plus, 2 Zone main PCB                      TPCA07 AlarmSense Plus, 4 zone extension card                      PSM3.0-24 Power Supply</p> <p>Incorporating as optional module:</p>	

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Certified Product	Description	LPCB Ref.No.
	<p>TPCA05 XLEN Communications Board ASP-8 8 Zone AlarmSense Conventional Control Panel</p> <p>Incorporating as modular units: TPCA03 XLEN LED Display &amp; Controls Board TPCA06-P4 AlarmSense Plus, 4 Zone main PCB TPCA07 AlarmSense Plus, 4 zone extension card PSM3.0-24 Power Supply</p> <p>Incorporating as optional module: TPCA05 XLEN Communications Board ASP-12 12 Zone AlarmSense Conventional Control Panel</p> <p>Incorporating as modular units: TPCA03 XLEN LED Display &amp; Controls Board TPCA06-P4 AlarmSense Plus, 4 Zone main PCB TPCA07 AlarmSense Plus, 4 zone extension card x 2 PSM3.0-24 Power Supply</p> <p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2: 7.8 Output to fire alarm devices 7.11 Delays to outputs</p>	

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Certified Product	Description	LPCB Ref.No.
	10 Test condition  Note: 1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13	
Esento Evoque	16, 24 and 32 Zone Conventional Control and Indicating Equipment  Esento Evoque 16 Zone Conventional Control Panel  Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB  and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board  Esento Evoque 24 Zone Conventional Control Panel  Incorporating as modular units:	810a/08

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Certified Product	Description	LPCB Ref.No.
	TPCA10 32 Zone LED display PCB TPCA11-24 24 Zone Main PCB TPCA12 Power supply PCB  and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board  Esento Evoque 32 Zone Conventional Control Panel  Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-32 32 Zone Main PCB TPCA12 Power supply PCB  and as optional modules TPCR01 Relay PCB TPCR03 Isolate Switch PCB TPCA09 Sounder Card PCB TPCA08 Output Card PCB TPCA05 XLEN Communications Board	

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Certified Product	Description	LPCB Ref.No.
	<p>Certified with the following options with requirements from EN 54 Part 2:</p> <ul style="list-style-type: none"> <li>7.8 Output to fire alarm devices</li> <li>7.9.1 Output to fire alarm routing equipment</li> <li>7.11 Delays to outputs</li> <li>7.12.1 Dependency on more than one alarm signal type A</li> <li>7.12.2 Dependency on more than one alarm signal type B</li> <li>7.12.3 Dependency on more than one alarm signal type C</li> <li>10 Test condition</li> </ul> <p>Note:</p> <ol style="list-style-type: none"> <li>1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</li> </ol>	
ESEN-2 / 4	<p>2 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO (ESEN-2)</p> <p>Incorporating as modular units:            TPC A01- S2 Eclipse two zone main PCB applicable on 2 zone CIE only            TPC A02 Eclipse LED display PCB            PSM1.5 - 24 Power supply 1.5A rated</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <ul style="list-style-type: none"> <li>7.8 Output to fire alarm devices</li> <li>7.12.1 Dependency on more than one alarm signal type A</li> <li>10 Test condition</li> </ul>	810a/09

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Certified Product	Description	LPCB Ref.No.
	<p>4 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO (ESEN-4)</p> <p>Incorporating as modular units:                      TPC A01- S4 Eclipse four zone main PCB applicable on 4 zone CIE only                      TPC A02 Eclipse LED display PCB                      PSM1.5 - 24 Power supply 1.5A rated</p> <p>Certified with the following options with requirements from EN 54 Part 2:                      7.8 Output to fire alarm devices                      7.12.1 Dependency on more than one alarm signal type A                      10 Test condition</p> <p>Note:                      1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	
ESEN-8	<p>8 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO 8 Zone Conventional Control Panel (Manufacturers internal code ESEN-8)</p> <p>Incorporating as modular units:                      TPCA01-X4 XLEN 4 Zone Main PCB                      TPCA03 XLEN Display Board                      TPCA04-H XLEN High Spec 4 Zone Extension Board                      PSM3.0-24 Power Supply</p>	810a/10

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Certified Product	Description	LPCB Ref.No.
	<p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition</p> <p>Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	
ESEN-12	<p>12 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO 12 Zone Conventional Control Panel (Manufacturers internal code ESEN-12) TPCA01-X4 XLEN 4 Zone Main PCB TPCA03 XLEN Display Board TPCA04-S XLEN Standard 4 Zone Extension Board TPCA04-H XLEN High Spec 4 Zone Extension Board PSM3.0-24 Power Supply</p>	810a/11

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ESEN-R-12MAR	<p>Incorporating as optional module: TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices 7.11 Delays to outputs 7.12.1 Dependency on more than one alarm signal type A 7.12.2 Dependency on more than one alarm signal type B 7.12.3 Dependency on more than one alarm signal type C 10 Test condition</p> <p>12 Zone Repeater Panel is approved for use with the ESEN 8-12 Zone Control and Indicating Equipment</p> <p>Note: This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	810a/R01
ESEN-16	<p>16 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO 16 Zone Conventional Control Panel</p> <p>Incorporating as modular units: TPCA10 32 Zone LED display PCB TPCA11-16 16 Zone Main PCB TPCA12 Power supply PCB</p>	810a/12

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### HAES TECHNOLOGIES LIMITED

Certified Product	Description	LPCB Ref.No.
	<p>and as optional modules</p> <p>TPCR01 Relay PCB</p> <p>TPCR03 Isolate Switch PCB</p> <p>TPCA09 Sounder Card PCB</p> <p>TPCA08 Output Card PCB</p> <p>TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices</p> <p>7.9.1 Output to fire alarm routing equipment</p> <p>7.11 Delays to outputs</p> <p>7.12.1 Dependency on more than one alarm signal type A</p> <p>7.12.2 Dependency on more than one alarm signal type B</p> <p>7.12.3 Dependency on more than one alarm signal type C</p> <p>10 Test condition</p> <p>Note:</p> <p>1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	
ESEN-24	<p>24 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO 24 Zone Conventional Control Panel</p> <p>Incorporating as modular units:</p>	810a/13

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Signed for BRE Global Ltd

E Mattie-Suleiman  
Verifier

22 May 2020  
Date of Issue

24 June 2010  
Date of First Issue



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## Appendix to Certificate No: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

Certified Product	Description	LPCB Ref.No.
	<p>TPCA10 32 Zone LED display PCB                      TPCA11-24 24 Zone Main PCB                      TPCA12 Power supply PCB</p> <p>and as optional modules                      TPCR01 Relay PCB                      TPCR03 Isolate Switch PCB                      TPCA09 Sounder Card PCB                      TPCA08 Output Card PCB                      TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices                      7.9.1 Output to fire alarm routing equipment                      7.11 Delays to outputs                      7.12.1 Dependency on more than one alarm signal type A                      7.12.2 Dependency on more than one alarm signal type B                      7.12.3 Dependency on more than one alarm signal type C                      10 Test condition</p> <p>Note:</p> <p>1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	

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## Appendix to Certificate No: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

Certified Product	Description	LPCB Ref.No.
ESEN-32	<p>32 Zone Conventional Control and Indicating Equipment</p> <p>ESENTO 32 Zone Conventional Control Panel</p> <p>Incorporating as modular units:                      TPCA10 32 Zone LED display PCB                      TPCA11-32 32 Zone Main PCB                      TPCA12 Power supply PCB</p> <p>and as optional modules                      TPCR01 Relay PCB                      TPCR03 Isolate Switch PCB                      TPCA09 Sounder Card PCB                      TPCA08 Output Card PCB                      TPCA05 XLEN Communications Board</p> <p>Certified with the following options with requirements from EN 54 Part 2:</p> <p>7.8 Output to fire alarm devices                      7.9.1 Output to fire alarm routing equipment                      7.11 Delays to outputs                      7.12.1 Dependency on more than one alarm signal type A                      7.12.2 Dependency on more than one alarm signal type B                      7.12.3 Dependency on more than one alarm signal type C                      10 Test condition</p>	810a/14

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## Appendix to Certificate No: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

Certified Product	Description	LPCB Ref.No.
	<p>Note:</p> <p>1. This product approval does not constitute compliance with the fire detection and alarm systems requirements of EN 54-13.</p>	

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## Appendix to Certificate No: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

#### Alternative Model No./Label

LPCB Ref No.	Model No.	Alternative Model No./Label	Cross-listed company	Cross-Listed Co Cert./ Ref No.
810a/03	Esento Eclipse	QuickZone	Advanced Electronics Limited	544b
810a/03	Esento Eclipse	Zonefinder	AMPAC Europe Ltd	810a-(cl-1)
810a/03	Esento Eclipse	FSDG2 / FSDG4	Firesafe	810a-(cl-4)
810a/04	Esento Excel	QuickZone XL	Advanced Electronics Limited	544b
810a/04	Esento Excel	Zonefinder Plus	AMPAC Europe Ltd	810a-(cl-1)
810a/04	Esento Excel	FirePlus 2-12	Context Plus Ltd	810a-(cl-2)
810a/04	Esento Excel	FSDG8 / FSDG12	Firesafe	810a-(cl-4)
810a/08	Esento Evoque	FirePlus 16-32	Context Plus Ltd	810a-(cl-2)
810a/08	Esento Evoque	QuickZone XL 16-24-32	Advanced Electronics Limited	544b
810a/09	ESEN-2	NS-EN2	Shield Fire, Safety and Security Ltd	810a-(cl-3)
810a/09	ESEN-4	NS-EN4	Shield Fire, Safety and Security Ltd	810a-(cl-3)
810a/10	ESEN-8	NS-EN8	Shield Fire, Safety and Security Ltd	810a-(cl-3)
810a/11	ESEN-12	NS-EN12	Shield Fire, Safety and Security Ltd	810a-(cl-3)
810a/12	ESEN-16	NS-EN16	Shield Fire, Safety and Security Ltd	810a-(cl-3)
810a/13	ESEN-24	NS-EN24	Shield Fire, Safety and Security Ltd	810a-(cl-3)

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## Appendix to Certificate No: 810a

Issue: 17

### HAES TECHNOLOGIES LIMITED

LPCB Ref No.	Model No.	Alternative Model No./Label	Cross-listed company	Cross-Listed Co Cert./ Ref No.
810a/14	ESEN-32	NS-EN32	Shield Fire, Safety and Security Ltd	810a-(cl-3)

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