

# MxPro<sup>5</sup>

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## Declaration

**MxPro<sup>5</sup> AV**

**Automatic Fire Alarm System**

Advanced Electronics Ltd declares that the MX-5000 CIE provided with optional functions as listed in Annex 1 and comprising of system components as listed in Annex 2 meets the requirements of:

EN54-13:2005    Fire detection and fire alarm systems – Compatibility assessment of system components

This declaration is prepared based on the results detailed in the test reports listed in Annex 3.

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## Annex 1 Options with requirements

| Optional function with requirements       | EN54-2 Clause |
|---|---------------|
| Output to fire alarm devices              | 7.8           |
| Output to fire alarm routing equipment    | 7.9           |
| Output to fire protection equipment       | 7.10          |
| Delays to outputs                         | 7.11          |
| Coincidence detection, Type B dependency  | 7.12.2        |
| Coincidence detection, Type C dependency  | 7.12.3        |
| Alarm Counter                             | 7.13          |
| Fault signals from points                 | 8.3           |
| Output to fault warning routing equipment | 8.9           |
| Disablement of addressable points         | 9.5           |
| Test condition                            | 10            |
| Standardised interface                    | 11            |
|   |               |

## Annex 2 System Components

| Type / Part Number                        | Description  | Certificate    | Type <sup>1</sup> |
|---|--|----------------|-------------------|
| Control and Indicating Equipment          |  |                |                   |
| MX-5101V                                  | Control and indicating equipment – 1 Loop Enclosures S, M, L, D, R   | 0786-CPD-20952 | 1                 |
| MX-5201V – MX-5202V                       | Control and indicating equipment – 1-2 Loop Enclosures M, L, D, R    | 0786-CPD-20952 | 1                 |
| MX-5401V – MX-5404V                       | Control and indicating equipment – 1-4 Loop Enclosures M, L, D, E, R | 0786-CPD-20952 | 1                 |
| MX-5030/FT                                | Control and indicating equipment – RCT                               | G210022        | 1                 |
| System Components - Optional <sup>2</sup> |  |                |                   |
| MXP-501                                   | Battery Temperature Sensor   | G210022        | 1                 |
| MXP-502 <sup>3</sup>                      | Loop Interface Card  | G210022        | 1                 |
| MXP-505                                   | Alarm Circuit Active EOL   | G210022        | 1                 |
| MXP-506                                   | Routing / Protection Standardised Termination                        | G210022        | 1                 |
| MXP-507                                   | Relay Card – 2-Way   | G210022        | 1                 |
| MXP-509                                   | Network Interface Card – FT  | G210022        | 1                 |
| MXP-510/FT                                | Network BMS Interface  | G210022        | 1                 |
| MXP-512                                   | Printer  | G210022        | 2                 |
| MXP-513-XXX <sup>4</sup>                  | LED Indicators   | G210022        | 1                 |
| MXP-514                                   | AC Filter Card   | G210022        | 1                 |
| MXP-532                                   | PBUS Module – Routing / Protection Interface                         | G210022        | 1                 |
| MXP-536                                   | PBUS Module – 8-Way Zone Interface                                   | G210022        | 1                 |
| MXP-537                                   | PBUS Module – 10-Way Input   | G210022        | 1                 |
| MXP-538                                   | PBUS Module – 16-Way Switch / 48-LED                                 | G210022        | 1                 |
| MXP-539                                   | PBUS Module – 16-Way Input / 48-Output                               | G210022        | 1                 |
| MXP-547                                   | Pager Interface  | G210022        | 1                 |
| MXP-554/FT                                | Network LAN Interface  | G210022        | 1                 |
|   |  |                |                   |
| MXP-034                                   | PBUS Module – 4-Way Sounder  | G210022        | 1                 |
| MXP-035                                   | PBUS Module – 4-Way Relay  | G210022        | 1                 |
| MXP-045/FT                                | Network 50-Way I/O   | G210022        | 1                 |
| MXS-051                                   | PSE Module 5A  | G210022        | 1                 |
|   |  |                |                   |

<sup>1</sup> Component Types are listed in accordance with the categories in EN54-13 – Type 1 compatible and Type 2 connectable.

<sup>2</sup> Tested as part of the control and indicating system and listed in the report.

<sup>3</sup> A minimum of one loop driver is installed in each panel.

<sup>4</sup> Covers variants -050RD, -050RY, -050YL, -100RD, -100RY, -100YL, -050CRY, -050CRYG and -200RY

| Type / Part Number | Description  | Certificate      | Type |
|--------------------|--|------------------|------|
| Loop Devices       |  |                  |      |
| 20-V100-ADV        | Detector – Optical Smoke                                       | 0832-CPD-1123    | 1    |
| 20-V200-ADV        | Detector – Multi-criteria, Optical Smoke / Heat                | 0832-CPD-1124    | 1    |
| 20-V350-ADV        | Detector – Heat  | 0832-CPD-1122    | 1    |
| 20-LV100-ADV       | Detector – Optical Smoke                                       | 0832-CPD-1118    | 1    |
| 20-LV200-ADV       | Detector – Multi-criteria, Optical Smoke / Heat                | 0832-CPD-1119    | 1    |
| 20-LV350-ADV       | Detector – Heat  | 0832-CPD-1120    | 1    |
| 20-VB100-ADV       | Detector Mounting Base   | N/A <sup>5</sup> | 1    |
| 20-VDBS100-ADV     | Detector Mounting Base – Deep                                  | N/A <sup>5</sup> | 1    |
| 20-VBLR100-ADV     | Detector Mounting Base – Relay                                 | N/A <sup>5</sup> | 1    |
|                    |  |                  |      |
| 20-VCP100-ADV      | Manual Call Point – Red  | 0832-CPD-1117    | 1    |
| 20-VCP100-B-ADV    | Manual Call Point – Blue                                       | 0832-CPD-1117    | 1    |
| 20-VCP100-G-ADV    | Manual Call Point – Green                                      | 0832-CPD-1117    | 1    |
| 20-VCP100-W-ADV    | Manual Call Point – White                                      | 0832-CPD-1117    | 1    |
| 20-VCP100-Y-ADV    | Manual Call Point – Yellow                                     | 0832-CPD-1117    | 1    |
|                    |  |                  |      |
| 20-VMI100-ADV      | Monitored Input Module   | 0786-CPD-21190   | 1    |
| 20-VMMI100-ADV     | Monitored Input Module – Mini                                  | 0786-CPD-21210   | 1    |
| 20-VMC100-ADV      | Monitored Output Module  | 0786-CPD-21188   | 1    |
| 20-VMMC100-ADV     | Monitored Output Module – Mini                                 | 0786-CPD-21211   | 1    |
| 20-VMC120-ADV      | Relay Output Module  | 0786-CPD-21186   | 1    |
| 20-VMMC120-ADV     | Relay Output Module – Mini                                     | 0786-CPD-21213   | 1    |
| 20-VMIC100-ADV     | Monitored Input / Monitored Output Module                      | 0786-CPD-21189   | 1    |
| 20-VMMIC100-ADV    | Monitored Input / Monitored Output Module - Mini               | 0786-CPD-21212   | 1    |
| 20-VMIC120-ADV     | Monitored Input / Relay Output Module                          | 0786-CPD-21187   | 1    |
| 20-VMMIC120-ADV    | Monitored Input / Relay Output Module – Mini                   | 0786-CPD-21214   | 1    |
| 20-MB100-ADV       | Mounting Box for Modules                                       | N/A <sup>6</sup> |      |
| 20-DMB100-ADV      | Mounting Box for Modules – Deep                                | N/A <sup>6</sup> |      |
| 20-VMIC404-ADV     | Monitored 4 Input / 4 Relay Output Module                      | 0051-CPD-0335    | 1    |
| 20-VMIC602-ADV     | Monitored 6 Input / 2 Relay Output Module                      | 0051-CPD-0336    | 1    |
| 20-VMIC422-ADV     | Monitored 4 Input / 2 Relay Output / 2 Monitored Output Module | 0051-CPD-0334    | 1    |
|                    |  |                  |      |
| 20-VLS100-ADV      | Wall Sounder   | 0832-CPD-1121    | 1    |
| 20-VLS100H-ADV     | Wall Sounder (Slow Whoop) – Red                                | 0832-CPD-1064    | 1    |
| 20-VLS100HW-ADV    | Wall Sounder (Slow Whoop) – White                              | 0832-CPD-1064    | 1    |
| 20-VW2W100-ADV     | Wireless Translator Module                                     | 0832-CPD-1071    | 1    |

<sup>5</sup> Detector bases are covered on the detector certificates.

<sup>6</sup> Boxes are covered on the device certificates.

| Type / Part Number  | Description                                       | Certificate                | Type |
|---------------------|---|----------------------------|------|
| 20-SG100-ADV        | Wireless Detector – Optical Smoke                 | 0832-CPD-1069              | 1    |
| 20-SG200-ADV        | Wireless Detector – Optical Smoke / Heat Enhanced | 0832-CPD-1070              | 1    |
| 20-SG350-ADV        | Wireless Detector – Heat                          | 0832-CPD-1068              | 1    |
| 20-SGRS100-ADV      | Wireless Wall Sounder                             | 0832-CPD-1686              | 1    |
| 20-SGRS100W-ADV     | Wireless Wall Sounder – White                     | 0832-CPD-1686              | 1    |
| 20-SGRS100-H-ADV    | Wireless Wall Sounder (Slow Whoop)                | 0832-CPD-1688              | 1    |
| 20-SGRS100-HW-ADV   | Wireless Wall Sounder (Slow Whoop) – White        | 0832-CPD-1688              | 1    |
| 20-SGRS100-AV-ADV   | Wireless Sounder Beacon                           | 0832-CPD-1687 <sup>7</sup> | 1    |
| 20-SGRS100-AV/W-ADV | Wireless Sounder Beacon – White                   | 0832-CPD-1687 <sup>7</sup> | 1    |
|                     |   |                            |      |
|                     |   |                            |      |
|                     |   |                            |      |

<sup>7</sup> Note: The date of compliance to CPD/CPR EN54-23 is 2013-12. The devices listed remain compatible but compliance with the CPD/CPR is not assured beyond the date of compliance or unless this declaration is updated. Beacons can be used as Type 2 devices.

| Type / Part Number                         | Description                                     | Certificate    | Type |
|--|---|----------------|------|
| Conventional Detector Devices <sup>8</sup> |   |                |      |
| 20-S1000-ADV                               | Detector – Optical Smoke                        | 0832-CPD-1421  | 1    |
| 20-S2000-ADV                               | Detector – Multi-criteria, Optical Smoke / Heat | --             | 1    |
| 20-S3500-ADV                               | Detector – Heat                                 | 0832-CPD-1425  | 1    |
| 08-RP-RS-01                                | Manual Call Point – Red – Type A                | --             | 1    |
| 08-RP-RS1-01                               | Manual Call Point – Red – Type A                | --             | 1    |
| 08-RP-RF-01                                | Manual Call Point – Red – Type A                | --             | 1    |
| 08-RP-YS-01                                | Manual Call Point – Yellow – Type A             | --             | 2    |
| 08-RP-YS1-01                               | Manual Call Point – Yellow – Type A             | --             | 2    |
| 08-RP-YF-01                                | Manual Call Point – Yellow – Type A             | --             | 2    |
| HFM/3/11/02                                | LST Manual Call Point – Red – Type B            | 0786-CPD-20350 | 1    |
| HM/3/11/01/02                              | LST Manual Call Point – Red – Type B            | 0786-CPD-20350 | 1    |
| HM/1/11/17/02                              | LST Manual Call Point – Yellow – Type B         | 0786-CPD-20251 | 2    |
| HM/5/11/02/02                              | LST Manual Call Point – Blue – Type B           | 0786-CPD-20363 | 2    |
| HM/5/11/18/02                              | LST Manual Call Point – Blue – Type B           | 0786-CPD-20363 | 2    |
|  |   |                |      |

<sup>8</sup> Connected via the MXP-536 Interface.

| Type / Part Number                      | Description                         | Certificate   | Type |
|---|-------------------------------------|---------------|------|
| Conventional Alarm Devices <sup>9</sup> |                                     |               |      |
| 18-980542                               | Klaxon Nexus Sounder (105dB)        | 0832-CPD-0617 | 1    |
| 18-980620                               | Klaxon Nexus Sounder Beacon (105dB) | 0832-CPD-0615 | 1    |
|   |                                     |               |      |
|   |                                     |               |      |

<sup>9</sup> Any conventional sounder / beacon may be connected if the device operating voltage range is:  $15V \leq V \leq 28V$ . The number of devices that can be connected depends on the loading. The sounder circuit current rating (1A) must not be exceeded.

## Annex 3 Test documentation

| Accredited Laboratory                         | Report Number | Date       |
|---|---------------|------------|
| VdS Schadenverhütung (DAT PL-016/92)          | BMA 10001     | 2010-02-24 |
| VdS Schadenverhütung (DAT PL-016/92)          | BMA 10029     | 2010-03-03 |
| BSI Product Services (UKAS 0135)              | 2244/7756376  | 2012-04-27 |
| VdS Schadenverhütung (DAkkS D-PL-11149-01-01) | BMA 13004     | 2013-02-25 |
| VdS Schadenverhütung (DAkkS D-PL-11149-01-01) | BMA 13015     | 2013-03-01 |
|   |               |            |