

# MxPro<sup>5</sup>

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## Declaration

### **MxPro<sup>5</sup> Apollo                      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.

Authorised by:



D Wilson  
Engineering Manager

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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-5101	Control and indicating equipment – 1 Loop Enclosures S, M, L, D, R	0786-CPD-20952	1
MX-5201 – MX-5202	Control and indicating equipment – 1-2 Loop Enclosures M, L, D, R	0786-CPD-20952	1
MX-5401 – MX-5404	Control and indicating equipment – 1-4 Loop Enclosures M, L, D, E, R	0786-CPD-20952	1
MX-5802 – MX-5808/FT	Control and indicating equipment – 2-8 Loop	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			
55000-400/420	Detector – Heat Class A2S	0832-CPD-0161	1
55000-401	Detector – Heat Class CS	0832-CPD-0162	1
55000-440	Detector – Heat – Intrinsic Safe	0832-CPD-0311 <sup>5</sup>	1
58000-400	Detector – Heat Class P	0832-CPD-0022	1
55000-500/520	Detector – Ionization Smoke	0832-CPD-0163	1
55000-540	Detector – Ionization Smoke – Intrinsic Safe	0832-CPD-0312 <sup>5</sup>	1
58000-500	Detector – Ionization Smoke	0832-CPD-0023	1
55000-600/620	Detector – Optical Smoke	0832-CPD-0164	1
55000-640	Detector – Optical Smoke – Intrinsic Safe	0832-CPD-0313 <sup>5</sup>	1
58000-600	Detector – Optical Smoke	0832-CPD-0024	1
58000-700	Detector – Multi-criteria – Optical Smoke / Heat	0832-CPD-0025	1
55000-022	Detector – Flame (UV)	0832-CPD-1315	1
55000-023	Detector – Flame (UV/IR)	0832-CPD-1316	1
55000-024	Detector – Flame (IR)	0832-CPD-1317	1
58000-305	Detector – Heat / CO	0832-CPD-1761	1
55000-268	Detector – Beam 50m	0786-CPD-20313	1
55000-273	Detector – Beam 100m	0786-CPD-20313	1
55100-905	Manual Call Point – Type A	0832-CPD-0795	1
55100-908	Manual Call Point with Isolator – Type A	0832-CPD-0796	1
55100-940	Manual Call Point – Intrinsic Safe – Type A	0832-CPD-0812 <sup>5</sup>	1
55200-908	Manual call point with isolator – Type A	0832-CPD-2032	1
58100-905/908	Manual Call Point with Isolator – Type A	0832-CPD-0798	1
58100-951	Manual Call Point with isolator – weatherproof – Type A	0832-CPD-0811	1
58200-908	Manual Call Point with isolator – Type A	0832-CPD-2033	1
58200-951	Manual Call Point with isolator – weatherproof – Type A	0359-CPD-0168	1
45681-209	Detector Mounting Base	N/A <sup>6</sup>	1
45681-210	Detector Mounting Base	N/A <sup>6</sup>	1
45681-215	Detector Mounting Base – Intrinsic Safe	N/A <sup>56</sup>	1
45681-242	Detector Mounting Base with relay	0832-CPD-0845	1
45681-284	Detector Mounting Base with Isolator	0832-CPD-1011	1
45681-321	Detector Mounting Base with Isolator	0832-CPD-0840	1
55000-720	Isolator Module	0832-CPD-0843	1
45681-211	Isolator Module Mounting Base	N/A <sup>7</sup>	1

<sup>5</sup> Use with Single (55000-855) or Dual (55000-856) Translator Modules

<sup>6</sup> Detector bases are covered on the detector certificates.

<sup>7</sup> Isolator base is covered on the isolator certificate.

Type / Part Number	Description	Certificate	Type	
55000-182	Sounder control unit [DIN]	0832-CPD-0852	1	
55000-588	3-Channel Input / Output Module with Isolator	0832-CPD-0864	1	
55000-760	Switch Monitor Module with Isolator	0832-CPD-1072	1	
55000-797	AC Mains I/O unit [DIN]	0832-CPD-0853	1	
55000-802	Isolator – Dual [DIN]	0832-CPD-0844	1	
55000-803	I/O unit [DIN]	0832-CPD-0854	1	
55000-804	Output unit [DIN]	0832-CPD-0855	1	
55000-812	Zone monitor with isolator [DIN]	0832-CPD-0865	1	
55000-821	Switch monitor plus [DIN]	0832-CPD-0856	1	
55000-822	Switch monitor [DIN]	0832-CPD-0857	1	
55000-841	Switch Monitor Module with Isolator	0832-CPD-0866	1	
55000-843	Switch Monitor Module with Isolator	0832-CPD-0867	1	
55000-845	Zone Monitor Module with Isolator	0832-CPD-0868	1	
55000-847	Input / Output Module with Isolator	0832-CPD-0869	1	
55000-849	Output Module with Isolator	0832-CPD-0870	1	
55000-852	Sounder Controller Module with Isolator	0832-CPD-0871	1	
55000-864	Zone monitor with isolator	0832-CPD-1210	1	
55000-875	AC Mains I/O unit	0832-CPD-0860	1	
55000-855	Intrinsic Safe Translator Module – Single	0832-CPD-0858	1	
55000-856	Intrinsic Safe Translator Module – Dual	0832-CPD-0859	1	
SeTec B30110	Manual Call Point with Isolator – Type B Red	0786-CPD-20455	1	
SeTec B30120	Manual Call Point with Isolator – Type B Red	0786-CPD-20455	1	
SeTec B30130	Manual Call Point with Isolator – Type B Blue House Alarm	--	2	
MEP 245391	Manual Call Point – Type B Red	0786-CPD-20356	1	
MEP 245393	Manual Call Point – Type B Blue House Alarm	--	2	
MEP 245401	Manual Call Point – Type B Red	0786-CPD-20356	1	
55000-001/002	Sounder	Multi-Tone	0832-CPD-1050	1
55000-005	Sounder / Beacon (Red Lens)	Multi-Tone	0832-CPD-1051	1
55000-006	Sounder / Beacon (Clear Lens)	Multi-Tone	0832-CPD-1051	1
55000-274/275	Sounder (Red) Weatherproof	Multi-Tone	0832-CPD-0147	1
55000-276/277	Sounder	Slow Whoop	0832-CPD-0148	1
55000-278/279	Sounder	Multi-Tone	0832-CPD-0147	1
55000-293/294	Sounder / Beacon with Isolator	Multi-Tone	0832-CPD-0590 <sup>8</sup>	1,2
55000-298/299	Sounder / Beacon with Isolator	Multi-Tone	0832-CPD-0592 <sup>8</sup>	1,2

<sup>8</sup> CPD Certificate covers certification to EN54-3 only. For Beacon, refer to next note.

Type / Part Number	Description		Certificate	Type
58000-005/007	Sounder and Beacon	Multi-Tone	0832-CPD-1212	1,2
45681-277	Detector Mounting Base with Sounder and with Isolator	BS	0832-CPD-0273	1
45681-290	Detector Mounting Base with Sounder and with Isolator	Slow Whoop	0832-CPD-0275	1
45681-300	Detector Mounting Base with Sounder and with Isolator	DIN	0832-CPD-0373	1
45681-330	Detector Mounting Base with Sounder / Beacon and with isolator	BS	0832-CPD-0397 <sup>8</sup>	1,2
45681-393	Detector Mounting Base with Sounder / Beacon and with Isolator	Multi-Tone	0832-CPD-0872 <sup>8</sup>	1,2
45681-334	Detector Mounting Base with Sounder / Beacon and with Isolator	DIN	0832-CPD-0401 <sup>8</sup>	1,2
55000-877	Beacon Red – Red Flash		N/A <sup>9</sup>	2
55000-878	Beacon Amber – Amber Flash		N/A <sup>9</sup>	2
55000-879	Beacon Clear – Red Flash		N/A <sup>9</sup>	2
55000-09/010	Beacon		N/A <sup>9</sup>	2
45681-333	Detector Mounting Base with Beacon and with Isolator		N/A <sup>9</sup>	1,2
58000-010/020	Voice Sounder with isolator		0832-CPD-2097	1
58000-030/040	Voice Sounder / Beacon with isolator		0832-CPD-2098 <sup>8</sup>	1,2
XPA-IN-14007	Xpander Wireless, Interface unit		0359-CPD-0019 0359-CPD-0034	1
XPA-MC-14006	Xpander Wireless, Manual call point		0359-CPD-0021 0359-CPD-0033	1
XPA-CB-12034 comprising XPA-OH-12034 and XPA-WB-10022	Xpander Wireless, Smoke detector and base		0359-CPD-0012 0359-CPD-0037	1
XPA-CB-13032 comprising XPA-OH-13032 and XPA-WB-10022	Xpander Wireless, Multi-sensor Smoke detector and base		0359-CPD-0013 0359-CPD-0037	1
XPA-CB-11170 comprising XPA-HT-11170 and XPA-WB-10022	Xpander Wireless, Heat detector CS and base		0359-CPD-0010 0359-CPD-0037	1

<sup>9</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
XPA-CB-11171 comprising XPA-HT-11171 and XPA-WB-10022	Xpander Wireless, Heat detector A1R	0359-CPD-0011 0359-CPD-0037	1
XPA-CB-14001 comprising XPA-SO-14001 and XPA-SB-10023	Xpander Wireless, Alarm Device Sounder (Red) and base	0359-CPD-0014 0359-CPD-0036	1
XPA-CB-14002 comprising XPA-SO-14002 and XPA-SB-10024	Xpander Wireless, Alarm Device Sounder (White) and base	0359-CPD-0014 0359-CPD-0036	1
XPA-CB-14003 comprising XPA-SN-14003 and XPA-SB-10023	Xpander Wireless, Alarm Device Sounder Strobe (Red / Red Lens)	0359-CPD-0014 0359-CPD-0036	1
XPA-CB-14004 comprising XPA-SN-14004 and XPA-SB-10024	Xpander Wireless, Alarm Device Sounder Strobe (White / Amber Lens)	0359-CPD-0014 0359-CPD-0036	1
XPA-CB-14005 comprising XPA-SN-14005 and XPA-SB-10024	Xpander Wireless, Alarm Device Sounder Strobe (White / Clear Lens)	0359-CPD-0014 0359-CPD-0036	1
XPA-IN-14011	Xpander Input / Output – Single	0359-CPD-0024 0359-CPD-0035	1
XPA-IN-14012	Xpander Input / Output – Dual	0359-CPD-0024 0359-CPD-0035	1

Type / Part Number	Description	Certificate	Type
Conventional Detector Devices <sup>10</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
55000-317	Detector – Optical Smoke	0832-CPD-0021	1
55000-217	Detector – Ionization Smoke	0832-CPD-0015	1
55000-122	Detector – Heat A1R	0832-CPD-0003	1
55000-127	Detector – Heat BR	0832-CPD-0006	1
55000-132	Detector – Heat CR	0832-CPD-0009	1
55000-137	Detector – Heat CS	0832-CPD-0012	1
ORB-OP-12001	Detector – Optical Smoke	0832-CPD-0035	1
ORB-OP-13001	Detector – Multi-sensor	0832-CPD-0036	1
ORB-OH-11001	Detector – Heat A1R	0832-CPD-0029	1
ORB-OH-11002	Detector – Heat A2S	0832-CPD-0030	1
ORB-OH-11003	Detector – Heat BR	0832-CPD-0031	1
ORB-OH-11004	Detector – Heat BS	0832-CPD-0032	1
ORB-OH-11005	Detector – Heat CR	0832-CPD-0033	1
ORB-OH-11006	Detector – Heat CS	0832-CPD-0034	1

<sup>10</sup> Connected via the MXP-536 Interface.



Type / Part Number	Description	Certificate	Type
Conventional Alarm Devices <sup>11</sup>			
18-980542	Klaxon Nexus Sounder (105dB)	0832-CPD-0617	1
18-980620	Klaxon Nexus Sounder Beacon (105dB)	0832-CPD-0615	1

<sup>11</sup> Any conventional sounder / beacon may be connected if the device operating voltage range is:  $15V \geq V \geq 28V$ . 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
VdS Schadenverhütung (DAkkS D-PL-11149-01-01)	BMA 13106	2013-11-15