



DECLARATION OF PERFORMANCE

No. 0051-CPR-2844

Unique identification code of the product-type:

Model/s: **EWT100, EWT100B**

Intended use/s:

**Input/output device using radio links with integrated short circuit isolator
for fire detection and fire alarm systems installed in buildings**

Manufacturer:

INIM ELECTRONICS S.R.L.
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System/s of AVCP:

System 1

Harmonized standard/s:

EN 54-17:2005 + AC:2007
EN 54-18:2005 + AC:2007
EN 54-25:2008 + AC:2012

Notified Body/ies:

IMQ S.p.A., No. 0051

Declared performance/s:

Essential Characteristics	Performance	Harmonized technical specification	Clause §	Note
Response delay (response time)				
Performance and variation in supply parameters	PASS	EN 54-18:2005 + AC:2007	5.2	
Test for alarm signal integrity	PASS	EN 54-25:2008 + AC:2012	8.2.3	
Test for mutual disturbance between systems of the same manufacturer	PASS		8.2.6	
Performance under fire condition				
Reproducibility	PASS	EN 54-17:2005 + AC:2007	5.2	
Functional test	PASS	EN 54-18:2005 + AC:2007	5.1.4	
General	PASS PASS	EN 54-25:2008 + AC:2012	4.1 5.2	
Alarm signal integrity	PASS		4.2.2	
Reproducibility test	PASS		8.3.7	
Operational reliability				
Requirements	PASS	EN 54-17:2005 + AC:2007	4	
Functional test	PASS	EN 54-18:2005 + AC:2007	5.1.4	
Immunity to site attenuation	PASS	EN 54-25:2008 + AC:2012	4.2.1	
Identification of the RF linked component	PASS		4.2.3	
Receiver performance	PASS		4.2.4	
Immunity to interference	PASS		4.2.5	
Loss of communication	PASS		4.2.6	
Antenna	PASS		4.2.7	
Power supply equipment	PASS		5.3	
Environmental related requirements	PASS		5.4	
Documentation	PASS		6	
Marking	PASS		7	
Test for immunity to site attenuation	PASS		8.2.2	



Test for identification of RF linked components	PASS		8.2.4	
Test for the receiver performance	PASS		8.2.5	
Test for compatibility with other band users	PASS		8.2.7	
Test for the detection of a loss of communication on a link	PASS		8.2.8 ^a	
Test of the antenna	PASS		8.2.9	
General	PASS		8.3.1	
Test schedule for components tests	PASS		8.3.2	
Verification of the service life of the autonomous power source(s)	PASS		8.3.3	
Test for the low power condition fault signal	PASS		8.3.4	
Test for the polarity reversal	PASS		8.3.5	
Repeatability test	PASS		8.3.6	
Durability of operational reliability: temperature resistance				
Dry heat (operational)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.4 5.3 8.3.9 ^b	
Dry heat (endurance)	PASS	EN 54-25:2008 + AC:2012	8.3.10 ^b	
Cold (operational)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.5 5.4 8.3.11	
Durability of operational reliability: vibration resistance				
Shock (operational)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.9 5.8 8.3.16 ^b	
Impact (operational)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.10 5.9 8.3.17	
Vibration, sinusoidal (operational)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.11 5.10 8.3.18	
Vibration, sinusoidal (endurance)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.12 5.11 8.3.19	
Durability of operational reliability: humidity resistance				
Damp heat, cyclic (operational)	PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007	5.6 5.5	
Damp heat, steady state (operational)	PASS	EN 54-25:2008 + AC:2012	8.3.13 ^c	
Damp heat, steady state (endurance)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.7 5.6 8.3.14	
Durability of operational reliability: corrosion resistance				
Sulphur dioxide (SO ₂) corrosion (endurance)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.8 5.7 8.3.15 ^b	
Durability of operational reliability: electrical stability				
Electromagnetic compatibility (EMC), immunity tests (operational)	PASS PASS PASS	EN 54-17:2005 + AC:2007 EN 54-18:2005 + AC:2007 EN 54-25:2008 + AC:2012	5.3, 5.13 5.2, 5.12 8.3.20	
The products covered by the standard EN 54-25 are assumed to enter in alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire. (a) Only applicable to components required to indicate loss of communication or to transmit this information to the CIE. (b) Not applicable for CIE. (c) Only applicable for CIE and smoke detectors.				



The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read "Baldovino Ruggieri".

Baldovino Ruggieri
(Managing Director)

At Monteprandone, on 02/03/2023



Evolving Security