FIRE CERTIFICATION & INSPECTION

NOTIFIED BODY № **2918**

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2918-CPR-02.041.2023

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9.03.2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

Addressable fire alarm wireless expander module 45TRA100 with derivative name WLAE10

with parameters (levels and classes of performance, identification and intended use) given in Annexes 1, 2 and 3 to the certificate of a total of 5 pages, which are an integral part of it,

placed on the market under the name or trade mark of

Comelit Group S.p.A

Via Don Arrigoni n.5, 24020 Rovetta San Lorenzo (BG), Italy

and produced in the manufacturing plant:

1015752

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

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

under System 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 18th September 2023 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

VALIDITY

Signature: .....
Prof. Dr. Eng. Veselin Simeonov
Director of the Assessment Department

Sofia
18.09.2023

Digital version of the Certificate!

Fire Certification and Inspection Ltd.

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1. Technical specifications:

45TRA100 is addressable wireless expander (network gateway) module designed to work with addressable fire alarm panel 41CPE118. The 45TRA100 is powered directly from the loop line and can be controlled via the communication protocol. 45TRA100 has a built-in isolator module. The 45TRA100 communicates with Comelit series wireless devices included in its configuration. Wireless devices are automatically recognized by the fire control panel and assigned at sequential addresses after the expander (network gateway) module's assigned address. Up to 32 wireless devices can be registered to a particular extender, forming a linear network. Up to 5 45TRA100 wireless expander (network gateway) modules can be connected to one 41CPE118 fire alarm control panel. The 45TRA100 is mounted in a compact plastic box suitable for wall mounting. Information about the status of registered wireless devices is presented on an LCD text display (matrix 16x2). A dipole SMA type antenna is supplied with the expander (network gateway) module to ensure a wide coverage and stable communication with registered wireless devices.
Dimensions – (191 x 125 x 60) mm.
Weight - 180 g.

2. Performance characteristics of the addressable wireless expandable module with built-in isolator 45TRA100, according to: EN 54-17:2005, EN 54-17:2005/AC:2007

Essential characteristics	Clauses in this European standard	Performance
Performance under fire conditions:		
- reproducibility	5.2	PASS
Operational reliability:		
- requirements	4	PASS
Durability of operational reliability – Temperature resistance		
- dry heat (operational)	5.4	PASS
- cold (operational)	5.5	PASS
Durability of operational reliability – Vibration resistance:		
- shock (operational)	5.9	PASS
- impact (operational)	5.10	PASS
- vibration, sinusoidal (operational)	5.11	PASS
- vibration, sinusoidal (endurance)	5.12	PASS
Durability of operational reliability – Humidity resistance:		
- damp heat, cyclic (operational)	5.6	PASS

Essential characteristics	Clauses in this European standard	Performance
- damp heat, steady state (endurance)	5.7	PASS
Durability of operational reliability – Corrosion resistance:		
- Sulphur dioxide (SO2) corrosion(endurance)	5.8	PASS
Durability of operational reliability – Electrical resistance		
- variation in supply voltage	5.3	PASS
- electromagnetic compatibility (EMC) immunity tests (operational)	5.13	PASS

3. Performance characteristics of the addressable wireless expandable module with built-in isolator 45TRA100, according to: EN 54-18:2005, EN 54-18:2005/AC:2007

Essential characteristics	Clauses in this European standard	Performance
Response delay (response time):		
- performance and variation in supply parameters	5.2	PASS
Performance under fire condition:		
- functional test	5.1.4	PASS
Operational reliability:		
- functional test	5.1.4	PASS
Durability of operational reliability – Temperature resistance:		
- dry heat (operational)	5.3	PASS
- cold (operational)	5.4	PASS
Durability of operational reliability – Vibration resistance:		
- shock (operational)	5.8	PASS
- impact (operational)	5.9	PASS
- vibration, sinusoidal (operational)	5.10	PASS
- vibration, sinusoidal (endurance)	5.11	PASS
Durability of operational reliability – Humidity resistance:		
- damp heat, cyclic (operational)	5.5	PASS
- damp heat, steady state (endurance)	5.6	PASS
Durability of operational reliability – Corrosion resistance:		
- Sulphur dioxide (SO_2) corrosion(endurance)	5.7	PASS
Durability of operational reliability – Electrical resistance:		
- performance and variation in supply parameters	5.2	PASS
- electromagnetic compatibility (EMC) immunity tests	5.12	PASS

4. Performance characteristics of the addressable wireless expandable module with built-in isolator 45TRA100, according to: EN 54-25:2008, EN 54-25:2008/AC:2012

Essential characteristics	Clauses in this European standard	Performance
Performance parameters under fire conditions:		
- general	4.1	PASS
- alarm signal integrity	4.2.2	PASS
- general	5.2	PASS
- reproducibility test	8.3.7	PASS
Response delay (reaction time to fire):		
- test for alarm signal integrity	8.2.3	PASS
- test for mutual disturbance between systems of the same manufacturer	8.2.6	PASS
Operational reliability:		
- immunity to site attenuation	4.2.1	PASS
- identification of the rf linked component	4.2.3	PASS
- receiver performance	4.2.4	PASS
- immunity to interference	4.2.5	PASS
- loss of communication	4.2.6	PASS
- antenna	4.2.7	PASS
- power supply equipment	5.3	NA
- environmental related requirements	5.4	PASS
- documentation	6	PASS
- marking	7	PASS
- test for immunity to site attenuation	8.2.2	PASS
- test for identification of rf linked components	8.2.4	PASS
- test for the receiver performance	8.2.5	PASS
- test of compatibility with other band user	8.2.7	PASS
- test for the detection of a loss of communication on a link	8.2.8	PASS
- test of the antenna	8.2.9	PASS
- general	8.3.1	PASS
- test schedule for components tests	8.3.2	PASS

Essential characteristics	Clauses in this European standard	Performance
- verification of the service life of the autonomous power source(s)	8.3.3	NA
- test for the low power condition fault signal	8.3.4	NA
- test for the polarity reversal	8.3.5	NA
- repeatability test	8.3.6	PASS
Durability of operational reliability - Temperature resistance		
- dry heat (operational)	8.3.9	NA
- dry heat (endurance)	8.3.10	NA
- cold (operational)	8.3.11	PASS
Durability of operational reliability - Vibration resistance		
- shock (operational)	8.3.16	NA
- impact (operational)	8.3.17	PASS
- vibration, sinusoidal (operational)	8.3.18	PASS
- vibration, sinusoidal (endurance)	8.3.19	PASS
Durability of operational reliability - Humidity resistance		
- damp heat, cyclic (operational)	8.3.12	NA*
- damp heat, steady state (operational)	8.3.13	PASS
- damp heat, steady state (endurance)	8.3.14	PASS
Durability of operational reliability - Corrosion resistance		
- SO_2-corrosion (endurance)	8.3.15	NA
Durability of operational reliability - Electrical stability		
- electromagnetic Compatibility (EMS), Immunity tests (operational)	8.3.20	PASS

*NA- not applicable
The validity of this certificate can be checked on our website: https://firecert.eu/bg/c/register

Signature: .....

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Director of the Assessment Department

Sofia
18.09.2023