



# EVPU<sup>®</sup>

NOTIFIED BODY No. 1293

## CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0419

In compliance with the Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

### Input-output device TFM21

For specifications see Annex

produced by

**TECNOALARM s.r.l.**

**Via Cirie 38, 10099 San Mauro – Torino, Italy**

and produced in the manufacturing plant

**TECNOALARM s.r.l.**

**Via Cirie 38, 10099 San Mauro – Torino, Italy**

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

**EN 54-17:2005/AC:2007, EN 54-18:2005/AC:2007**

under system 1 are applied and that

**the product fulfils all the prescribed requirements set out above.**

This certificate was first issued on August 14, 2014 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Nová Dubnica, August 14, 2014

Marek Hudák  
Director NB



Marking may only be used if conformity with all relevant and effective Directives of EP and Council is attested.

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**Annex to Certificate No. 1293 - CPR - 0419 from August 14, 2014**

**Technical Specifications**

The TFM21 is an input-output expansion module which can be connected to the TFA series fire alarm panels from Tecnofire.

The module provides 2 inputs with their corresponding repeater outputs and 1 relay with free contact or controlled output. The inputs can be used to control normally open contacts in the loop controlled mode. The output serves to control an electrical device using the relay contacts, or to control alarm devices through the controlled output. The two types use of the output require different wiring.

The module is equipped with a loop isolator which, in case of failure, disconnects the device from the loop in order to safeguard the correct functioning of the devices connected downstream and upstream.

Two rotary switches mounted on the rear side of the module permit programming of 2-digits addresses. Each switch programs one of the digits the addresses is composed of X10 the tens and X1 the ones.

**Electrical specifications:**

Power supply	Over loop
Rated voltage	24VDC
Operating voltage:	18-30 V DC
Consumption in stand by	500 µA @ 24 V DC
Consumption in alarm	2,3 mA @ 24 V DC

**Products parameters:**

Essential characteristics	Performance	Harmonised technical specifications	
		EN 54-17:2005/AC:2007	EN 54-18:2005/AC:2007
Response delay (response time)	Pass	-	cl.5.2
Performance under fire conditions	Pass	cl. 5.2	cl.5.1.4
Operational reliability	Pass	cl. 4	cl.5.1.4
Durability of operational reliability: resistance of operational temperature	Pass	cl. 5.4, 5.5	cl.5.3, 5.4
Durability of operational reliability: vibration resistance	Pass	cl. 5.9 to 5.12	cl.5.8 to 5.11
Durability of operational reliability: humidity resistance	Pass	cl. 5.6, 5.7	cl.5.5, 5.6
Durability of operational reliability: corrosion resistance	Pass	cl. 5.8	cl.5.7
Durability of operational reliability: electrical stability	Pass	cl. 5.3, 5.13	cl.5.2, 5.12



Nová Dubnica, August 14, 2014

*Marek Hudák*  
Director NO