



**ÉMI Építészeti Minőségellenőrző Innovációs  
Nonprofit Kft.  
Központi Laboratórium  
Tűzvédelmi Szakági Laboratórium**

**ÉMI Non-Profit Limited Liability  
Company for Quality and  
Innovation in Building  
Fire Testing Laboratory**

Central Laboratory: 1113 Budapest, Diószegi út 37.

Phone: (36-1) 372-6113

Active Fire Testing Laboratory:

Phone: (36-26) 310-526

2000 Szentendre, Dózsa György út 26.

No. TMT-23/2011

## CERTIFICATE

on the  
**FIRE SAFETY CONFORMITY**  
of a technical product

This Certificate is issued by ÉMI Nonprofit Kft. as an attestation body by appointment  
No. 1-A/1014/2004  
16 December 2004) of the Minister of Interior,

at the request of

**TEF NEDERLAND BV  
NL-2921 LH KRIMPEN AAN DEN IJSSEL,  
SLIKSLOOTSTRAAT 9 A**

This Certificate of Conformity is based on the test results outlined in the attached TEST REPORT.  
Identification marking of technical product (brand name, type, marking):

**VULCAN-2D ADDRESSABLE SOUNDER – BEACON FOR  
DETECTORS**

This CERTIFICATE OF CONFORMITY (FIRE SAFETY) is valid until 15. July 2016

Budapest, 5 of July 2011

Seal

Dr Matolcsy Károly  
Scientific Director



503/0933(2)-857(2)

ÉMI Nonprofit Kft.'s Central Laboratory,  
Fire Testing Laboratory

- has been accredited under No. NAT-1-1110/2010 by the National Accreditation Body, in accordance with Hungarian Standard MSZ EN ISO/IEC 17025:2005; and
- it is a full rights member of EGOLF (European Group of Organisation for Fire Testing, Inspection and Certification).

KBiA-Xa-11-2010.01.17.

**Product manufacturer:** GLOBAL FIRE EQUIPMENT Ltd.  
Urb. Vale da Amoreia 16-17 Porta A/ 85-34 FARO, Portugal

**Distributor:** TEF Nederland BV  
NL-2921 LH Krimpen aan den IJssel, Slikslootstraat 9 a

**Identification of testing facilities:**

ÉMI Nonprofit Kft. Central Laboratory (H-1113 Budapest, Diószegi út 37)  
Fire Testing Laboratory (H-2000 Szentendre, Dózsa György út 26)

**Standards observed in testing the product:**

- MSZ EN 54-3:2003 Fire detection and fire alarm systems. Part 3: Fire alarm devices - Sounders
- MSZ EN 54-13:2005 Fire detection and fire alarm systems. Part 13: Compatibility assessment of system components
- 9/2008.(II.22.) ÖTM –Decree for the Ministry of the Local Government and Regional Development

**Brief description and technical data of the products:**

With 15 different variations, the Vulcan 2D brings an exciting flexibility to the Global Fire Equipment range of warning devices and interfaces. Up to 96 Vulcan 2D devices can be connected to a single Loop depending on Loop Loading. In the case of combined Sounder and Beacon devices the maximum number of devices should not exceed 64. The addressable Vulcan 2 is available as an Addressable Sounder, Beacon or combined Sounder / Beacon which may be field configured as a Shadow Sounder / Beacon or Auxiliary Sounder / Beacon. There are also versions available incorporating an isolator. All Vulcan 2 devices have dip-switch Address setting while Tone selection is via a jumper.

Supply [VDC]:	Loop power (17... 30)		
Current:	conventional question 1,1 mA		
Current - alarm: (in different sound frequency)		sounder	Sounder and beacon
	800-1000 kHz	4,0 mA	5,5 mA
	2-3 kHz	7,0 mA	8,0 mA
	only beacon	2,5 mA	
Isolator current [ $\mu$ A]:	15		
Sound output at 1 m [dB]:	84 at (800 Hz) / 88 (at 3 kHz)		
Material / colour:	ABS transparent PC FR 94V0 / white		
Dimensions [mm] / weight [g]:	100 × 29 × 37,5 / 100 (without cover), 120		
Environment:	0...+40 °C / 95% ((no condensation)		
Max. cabel [mm <sup>2</sup> ]:	2,5		

**Field of application of the product: (96/577/EK):** *Fire detection/alarm components– Sounders*

**Identification of technical documents:** M-199/2008; TMT-11/2008

**Technical conditions of applying the product safely:**

The technical conditions are identified in section 2<sup>nd</sup> and 4<sup>th</sup> of the relevant No. M-199/2008 Test Report. No. **TMT-23/2011** Certificate of Conformity (Fire Safety) covers a product which fully complies with the data and technical characteristics featuring in the Test Report marked . M-199/2008 and dated 31-03-2008 provided that the other conditions of application identified in section 2<sup>nd</sup> of the Test Report are met. During the life of this Certificate of Conformity, ÉMI Nonprofit Kft. is entitled to inspect the product in the manufacturing and/or distribution process, with expenses paid by the customer.

Noémi LÓRIK  
Deputy Head of Active Fire  
Testing Laboratory

Péter GEIER  
Deputy Head of Division  
of Fire Protection