



**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.  
Active Fire Testing Laboratory:  
2000 Szentendre, Dózsa György út 26.

Phone: (36-1) 372-6113  
Phone: (36-26) 310-526

No. TMT-40/2010

## 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

**TELEFIRE FIRE & GAS DETECTORS LTD.  
5 Halapid St. P.O.B. 7036 Petach-Tikva IL-49250, Israel**

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):

**TFO-480 CONVENTIONAL AND TFO-480A ANALOG  
ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR  
WITH TFB-180 DETECTOR BASE**

This CERTIFICATE OF CONFORMITY (FIRE SAFETY) is valid until 14. April 2016

Budapest, 8 of April 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-11-2009.09.17.

**Product manufacturer:** TELEFIRE Fire & Gas Detectors Ltd.  
5 Halapid St. P.O.B. 7036 Petach-Tikva IL-49250, Israel

**Distributor:** TELEFIRE Fire & Gas Detectors Ltd.  
5 Halapid St. P.O.B. 7036 Petach-Tikva IL-49250, Israel

**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 54-7:2000/A1:2003, MSZ EN 54-7:2000/A2:2007 and MSZ EN 54-7:2003 Fire detection and fire alarm systems. Part 7: Smoke detectors. Point detectors using scattered light, transmitted light or ionization
- 9/2008.(II.22.) ÖTM –Decree for the Ministry of the Local Government and Regional Development

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

The TFO-480/ TFO-480A with TFB180 detector base are advanced photoelectric "green"smoke detectors which are made with an innovative and modern design. The TFO-480 operates with conventional fire alarm systems. The TFO-480A operates with Telefire's analog addressable control panels.

	<b>TPH-480</b>	<b>TPH-480A</b>
Operating Voltage (supplied by control panel via SLC)	12 ...28 VDC	21V modulated
Maximum Current:		Quiescence mode: 120µA Alarm mode (3 Indicators): 35mA Maximum Current to indicators: 50mA
Operating Temperature Range		-10... +60°C (14°F – 140°F)
Relative Humidity Range		10... 93RH% non-condensing
Sensitivity Range Default (no jumper)	0,26 ±0,07 dB/m	Level 2: 0,11 dB/m; Level 5: 0,20 dB/m;
high sensitivity (with jumper)	0,17 ±0,07 dB/m	Level 10: 0,35 dB/m; (in 9 step)
Diameter / weight .	Ø101 × 48 mm (including TFB-180 detector base) / 98 gr.	

**Field of application of the product:** *Fire detection/alarm components — Optical smoke detectors (96/577/EK):*

**Identification of technical documents:** M-800/2005-2010

**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-800/2005-2010 Test Report. No. **TMT-40/2010** Certificate of Conformity (Fire Safety) covers a product which fully complies with the data and technical characteristics featuring in the Test Report marked M-800/2005-2010 and dated 18-02-2011, 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 Lőrík  
Deputy Head of Active Fire  
Testing Laboratory

László Kocsis  
Head of Scientific Department  
of Fire Protection