



**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



Dr. Matócsy Károly
Dr Matócsy 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:

- EN 54-7:2000 +A1:2002 +A2:2006 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.

	TFO-480	TFO-480A
Operating Voltage (supplied by control panel via SLC)	12 ...28 VDC	21 V 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 2nd and 4th 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 2nd 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