



September 07th, 2005

INSPECTION REPORT

Ref: 03/INEM/051-2

IN PURSUANCE OF AN ORDER RECEIVED FROM UNIPOS LTD, REQUESTING US TO CARRY OUT THE INSPECTION WITHIN THE SUBJECT AND SCOPE DESCRIBED AS FOLLOWS:

1. SUBJECT OF THE INSPECTION

Interactive Fire Alarm System type IFS7000, presented at "Plemed" Ltd (single member) Test Laboratory in Pleven/Bulgaria.

2. SCOPE OF THE INSPECTION

As per our offer Ref. No 0472/16.05.2005:

- Identification of components of the Interactive Fire Alarm System, as described herein above, by visual inspection and presented technical documentation and data (manufacturer, type, serial numbers);
- Witness the test of Interactive Fire Alarm System IFS7000 and its components for compliance with the requirements of EN54-2:1997 / AC:1997, EN54-4:1997 / AC:1999, EN 54-5:2000, EN 54-7:2000 and EN 54-11:2001.

3. RESULTS OF THE INSPECTION

Test of Interactive Fire Alarm System IFS7000 was performed from July 08th to July 25th, 2005 at "Plemed" Ltd (single member) Test Laboratory in Pleven, No 114, "Grenaderska" Street, Bulgaria.

The test was performed by Mr. Stanoev, Mr. Chorbadijev, from Test Laboratory and Mrs. Angelov, from UNIPOS Ltd, observed by Mr. Ganov, representative of SGS Bulgaria Ltd. and approved by Mr. Borissov.

Components of the Interactive Fire Alarm System IFS7000, presented for inspection, were identified as follows:

- | | |
|---|----------|
| • Interactive fire control panel IFS7002 | - 1 pc |
| • Addressable fixed temperature heat detector (suffix S) type FD7110 | - 15 pcs |
| • Addressable rate of rise (suffix R) heat fire detector type FD7120 | - 15 pcs |
| • Addressable optical smoke fire detector type FD7130 | - 20 pcs |
| • Addressable manual call point type A: direct action type FD7150 | - 13 pcs |
| • Addressable combined optical smoke and rate of rise (suffix R) heat fire detector type FD7160 | - 20 pcs |
| • Conventional line-monitoring module with heat detector (suffix R), type FD7201 | - 1 pc |
| • Addressable input-output module type FD7203 | - 1 pc |
| • Addressable single output module type FD7203OC | - 1 pc |
| • Addressable single output module type FD7203R | - 1 pc |
| • Addressable sounder type FD7204S | - 1 pc |

The serial numbers of the goods are listed below:





Device	Serial Number
Interactive fire control panel IFS7002	002/2005
Addressable fixed temperature heat detector (suffix S) type FD7110	170505081, 170505082, 170505083, 170505084, 170505085, 170505086, 170505087, 170505088, 170505089, 170505090, 170505091, 170505092, 170505093, 170505094, 170505095
Addressable rate of rise (suffix R) heat fire detector type FD7120	170505101, 170505102, 170505103, 170505104, 170505105, 170505106, 170505107, 170505108, 170505109, 170505110, 170505111, 170505112, 170505113, 170505114, 170505115
Addressable optical smoke fire detector type FD7130	170505121, 170505122, 170505123, 170505124, 170505125, 170505126, 170505127, 170505128, 170505129, 170505130, 170505131, 170505132, 170505133, 170505134, 170505135, 170505136, 170505137, 170505138, 170505139, 170505140
Addressable manual call point type A: direct action type FD7150	170505181, 170505182, 170505183, 170505184, 170505185, 170505186, 170505187, 170505188, 170505189, 170505190, 170505191, 170505192, 170505193
Addressable combined optical smoke and rate of rise (suffix R) heat fire detector type FD7160	170505141, 170505142, 170505143, 170505144, 170505145, 170505146, 170505147, 170505148, 170505149, 170505150, 170505151, 170505152, 170505153, 170505154, 170505155, 170505156, 170505157, 170505158, 170505159, 170505160
Conventional line-monitoring module with heat detector (suffix R), type FD7201	170505023
Addressable input-output module type FD7203	170505011
Addressable single output module type FD7203OC	170505002
Addressable single output module type FD7203R	170505004
Addressable sounder type FD7204S	170505002





SGS representative witnessed the test of Interactive Fire Alarm System IFS7000 and its components, as described herein above, stated to be representative sample of production, for compliance with the requirements of the following standards:

- EN 54-2:1997 / AC:1997 – Fire detection and fire alarm systems - Part 2: Control and indicating equipment;
- EN 54-4:1997 / AC:1999 – Fire detection and fire alarm systems - Part 4: Power supply equipment;
- EN 54-5:2000 - Fire detection and fire alarm systems - Part 5: Heat detectors – Point detectors;
- EN 54-7:2000 - Fire detection and fire alarm systems - Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization;
- EN 54-11:2001 - Fire detection and fire alarm systems – Part 11: Manual call points.

Visual inspection for compliance with drawings was performed.

The following apparatus were used during the test:

- Digital multimeter MY-68, serial No 05071939, certificate No LKSIEV-217/26.11.2004;
- Regulated rectifier TEC 5060, serial No 586/1989;
- Regulated rectifier STATRON TYP 3205, serial No 4478;
- Regulated rectifier RFT 3217, serial No 4838;
- Autotransformer AL 2500, serial No 77497;
- Technical Appliances: TP 05-17006, inventory No 042, certificate No 007/18.05.2005; TP 05-17005, inventory No 044, certificate No 006/17.05.2005; TP 03-17004, inventory No 026, certificate No 003/16.05.2005; TP 03-17007, inventory No 029, certificate No 010/18.05.2005; TP 02-17001, inventory No 017, certificate No 009/14.05.2005;
- Heat tunnel HT 2001 HO 01-17002, inventory No 016, certificate No 012/18.05/2005;
- Smoke tunnel ST 2003 HO 03-17005, inventory No 027, certificate No 011/18.05/2005;
- Cold chamber, HO 03-17006, inventory No 028, certificate No 004/17.05.2005;
- Humidity chamber, HO 01-17001, inventory No 015, certificate No 001/16.05.2005;
- Thermometer, certificate No B196/09.12.2004;
- Anemometer -Thermometer UNITEST, serial No HE 0122TA, certificate No B195/09.12.2004;
- Scales 10kg, precision to 10 mg, E 5500 S, serial No 36080001;
- Slide Callipers 500 mm, precision 0,05mm, inventory No 005;
- Slide Callipers 150mm, precision 0,05mm, inventory No 013;
- Backup Battery, 2 pcs., 12 V, 18 Ah;

The following parts of the standard were followed:





STANDARD	DESCRIPTION	PART
BDS EN 54-2:2000	Fire detection and fire alarm systems	Part 2: Control and indicating equipment
EN 54-2:1997 / AC:1997	Fire detection and fire alarm systems	Part 2: Control and indicating equipment
BDS EN 54-4:2000	Fire detection and fire alarm system	Part 4: Power supply equipment
EN 54-4:1997 / AC:1999	Fire detection and fire alarm systems	Part 4: Power supply equipment
BDS EN 54-5:2001	Fire detection and fire alarm systems	Part 5: Heat detectors – Point detectors
EN 54-5:2000	Fire detection and fire alarm systems	Part 5: Heat detectors – Point detectors
BDS EN 54-7:2001	Fire detection and fire alarm systems	Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization
EN 54-7:2000	Fire detection and fire alarm systems	Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization
EN 54-11:2001	Fire detection and fire alarm systems	Part 11: Manual call points
IEC 60068-2-1:1990 / A1:1993 / A2:1994	Environmental testing	Part 2: Tests – Tests A: Cold
IEC 60068-2-2:1974 / A1:1993 / A2:1994	Basic environmental testing procedures	Part 2: Tests – Test B: Dry heat
IEC 60068-2-3:1969	Basic environmental testing procedures	Part 2.1: Tests – Tests Ca: Damp heat, steady state
IEC 60068-2-30:1980	Basic environmental testing procedures	Part 2: Tests – Test Db and guidance: Damp heat, Cyclic (12 + 12-hour cycle)
IEC 60068-2-56:1988	Environmental testing	Part 2: Tests – Test Cb: Damp heat, steady state, primarily for equipment

The test reports No 005/2005-07-28, 006/2005-07-27, 007/2005-07-28, 008/2005-07-26, 009/2005-07-28, 011/2005-07-25 and 012/2005-07-28, representing the results of the test, has been endorsed by the above mentioned representatives of UNIPOS Ltd, Test Laboratory and SGS Bulgaria Ltd. and become part of this report.

The results of the testing having been found satisfactory for the equipment, as stated above, insofar as tested at this time, complies with the requirements of EN 54-2:1997 / AC:1997, EN 54-4:1997 / AC:1999, EN 54-5:2000, EN 54-7:2000 u EN 54-11:2001.

The findings of this Report are limited to the place and date of inspection.

SGS BULGARIA LTD.

Enclosures: Pictures taken during inspection

Protocol № 005 / 2005-07-28
 Protocol № 006 / 2005-07-27
 Protocol № 007 / 2005-07-28
 Protocol № 008 / 2005-07-26
 Protocol № 009 / 2005-07-28
 Protocol № 011 / 2005-07-25
 Protocol № 012 / 2005-07-28


