





## Test Report issued under the responsibility of UkrTEST of Ukrmetrteststandart

# TEST REPORT EN 14604:2005 SMOKE ALARM DEVICES

Report Reference No...... 1595-1-2016

Total number of pages...... 26

Testing Laboratory...... UkrTEST of Ukrmetrteststandart

Applicant's name ...... RPE "Ajax"

Address...... "Kyiv, S.Skliarenka str., 5 ", Ukraine

Test specification:

Standard ...... EN 14604:2005/AC:2008

Test procedure ...... UkrTEST

Test Report Form(s) Originator ......: UkrTEST of Ukrmetrteststandart

Master TRF...... Dated 2016-10

Test item description ...... Smoke alarm device

Trade Mark ...... AJAX

Manufacturer.....: "AJAX",Ukraine

Model/Type reference...... Ajax FireProtect

Testing procedure and testing location:

Tested by (name + signature)....:

V. Zaika

Approved by (+ signature) .....: A. Gindikin

Summary of testing:

Tests performed (name of test and test clause): Smoke alarm devices was tested on conformity with requirements of EN 14604:2005/AC:2008

Testing location:

UkrTEST of Ukrmetrteststandart

4, Metrologichna Str.,

03143, Kyiv, Ukraine

Summary of compliance with National Differences: N/A

Smoke alarm devices Ajax FireProtect comply with requirements of EN 14604:2005/AC:2008

#### Copy of marking plate:

Smoke alarm device Model: Ajax FireProtect

### EN 14604:2005

Ukraine, Kyiv, S. Skliarenka str., 5, RPE «Ajax» Manufactured: 12.2016 Replace by: 12.2026

3V == 200mA

**Batteries** 

CR2 — 2pcs CR2032 — 1pc

Test the alarm for correct operation using the test facility, whenever the battery is replaced

#### General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

General product information:
Smoke alarm devices are designed for used inside house and give an audible signal as indicating the existence of a fire.

see cl. 5.24

touch button

Р

Р

Electrical safety requirements

Routine test facility

4.9

4.10

	EN 14604	·	
Clause	Requirement	Result-Remark	Verdict
5	Tools		
5.1	Tests General		P
5.1.1		(20 to 25) 00: (40 to 60) 0/:	<u>Р</u> Р
5.1.2	Atmospheric conditions for tests	(20 to 25) °C; (40 to 60) %;	<u>Р</u>
5.1.3	Operating conditions for tests	harizantal position	<u>Р</u>
5.1.4	Mounting arrangements  Toloropee	horizontal position	<u>Р</u>
	Tolerances  Macausa and of reappared threehold value	± 5 %	<u>Р</u>
5.1.5	Measurement of response threshold value		•
5.1.6	Provision for tests	provision 20 specimens	P
5.1.7	Test schedule		Р
5.2	Repeatability		Р
5.2.1	Object	one chosen arbitrarily	Р
5.2.2	Test procedure		Р
	Measured 1, (m), dB m <sup>-1</sup>	0,12	-
	Measured 2, (m), dB m <sup>-1</sup>	0,11	-
	Measured 3, (m), dB m <sup>-1</sup>	0,09 (m <sub>min</sub> )	-
	Measured 4, (m), dB m <sup>-1</sup>	0,11	-
	Measured 5, (m), dB m <sup>-1</sup>	0,13	-
	Measured 6, (m), dB m <sup>-1</sup>	0,14 (m <sub>max</sub> )	-
5.2.3	Requirements		Р
	The ratio of the response threshold values	1,56	Р
	m <sub>max</sub> :m <sub>min</sub> shall be not greater than 1,6  The lower response threshold value m <sub>min</sub> shall be not less than 0,05 dB m <sup>-1</sup>	0,09	P
5.3	Directional dependence		Р
5.3.1	Object	one chosen arbitrarily	Р
5.3.2	Test procedure		Р
	Measured 0 °, (m), dB m <sup>-1</sup>	0,13	-
	Measured 45 °, (m), dB m <sup>-1</sup>	0,16	-
	Measured 90 °, (m), dB m <sup>-1</sup>	0,14	-
	Measured 135 °, (m), dB m <sup>-1</sup>	0,15	-
	Measured 180 °, (m), dB m <sup>-1</sup>	0,13	-
	Measured 225 °, (m), dB m <sup>-1</sup>	0,17 (m <sub>max</sub> )	-
	Measured 270 °, (m), dB m <sup>-1</sup>	0,16	-
	Measured 315 °, (m), dB m <sup>-1</sup>	0,12 (m <sub>min</sub> )	-
5.3.3	Requirements		Р
	The ratio of the response threshold values m max:m min shall not be greater than 1,6	1,42	Р
	The lower response threshold value m <sub>min</sub> shall be not less than 0,05 dB m <sup>-1</sup>	0,12	Р

	EN 14604		
Clause	Requirement	Result-Remark	Verdict
	'		
5.4	Initial sensitivity		Р
5.4.1	Object		Р
5.4.2	Test procedure	orientation 225°	Р
	The response threshold specimen 12, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold specimen 17, (m), dB m <sup>-1</sup>	0,19	-
	The response threshold specimen 2, (m), dB m <sup>-1</sup>	0,14	-
	The response threshold specimen 5, (m), dB m <sup>-1</sup>	0,15	-
	The response threshold specimen 6, (m), dB m <sup>-1</sup>	0,15	-
	The response threshold specimen 13, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold specimen 14, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold specimen 3, (m), dB m <sup>-1</sup>	0,14	-
	The response threshold specimen 4, (m), dB m <sup>-1</sup>	0,14	-
	The response threshold specimen 1, (m), dB m <sup>-1</sup>	0,12	m <sub>min</sub>
	The response threshold specimen 8, (m), dB m <sup>-1</sup>	0,16	-
	The response threshold specimen 19, (m), dB m <sup>-1</sup>	0,21	-
	The response threshold specimen 9, (m), dB m <sup>-1</sup>	0,16	-
	The response threshold specimen 7, (m), dB m <sup>-1</sup>	0,15	-
	The response threshold specimen 15, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold specimen 20, (m), dB m <sup>-1</sup>	0,21	m <sub>max</sub>
	The response threshold specimen 18, (m), dB m <sup>-1</sup>	0,19	-
	The response threshold specimen 10, (m), dB m <sup>-1</sup>	0,16	-
	The response threshold specimen 16, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold specimen 11, (m), dB m <sup>-1</sup>	0,16	-
	Value of average sensitivity m, (m), dB m <sup>-1</sup>	0,16	-
5.4.3	Requirement		Р
	The following relationships shall hold	0,21 / 0,16 = 1,31	Р
	m <sub>max</sub> : m ≤ 1,33	0,2170,10 = 1,31	•
	The following relationships shall hold $m: m_{min} \le 1,5$	0,16 / 0,12 = 1,33	Р
	1 1001		
5.5	Air movement		Р
5.5.1	Object	specimen 10	Р
5.5.2	Test procedure		Р
	The response threshold with orientation 225° and 0,2 m/s, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold with orientation 315° and 0,2 m/s, (m), dB m <sup>-1</sup>	0,14	-
	The response threshold with orientation 225° and 1,0 m/s, (m), dB m <sup>-1</sup>	0,12	-
	The response threshold with orientation 315° and 1,0 m/s, (m), dB m <sup>-1</sup>	0,11	-
5.5.3	Requirements		Р
	One of the following relationships shall hold:	1	
	$0.625 \le (m_{(0,2)\text{max}} + m_{(0,2)\text{min}}) / (m_{(1,0)\text{max}} + m_{(1,0)\text{min}}) \le 1.6$	1,35	Р
	- / \(\cdot\(\dot\(\dot\)\) \(\dot\(\dot\(\dot\)\) \(\dot\(\dot\)\) \(\dot\\\\dot\\\\dot\(\dot\)\) \(\dot\\\\dot\\\\dot\\\\\dot\\\\\dot\\\\dot\\\\dot\\\\dot\\\\dot\\\\dot\\\\dot\\\dot\\\\dot\\\\dot\\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\\dot\\dot\\dot\\dot\\\dot\\dot\\\dot\dot	,	

	FN 44004	'	
6:	EN 14604	B # B .	V
Clause	Requirement	Result-Remark	Verdict
5.6	Dazzling		Р
5.6.1	Object	secimen 2	Р
5.6.2	Test procedure		Р
	with orientation 225°		-
	The response threshold befor dazzling, (m), dB m <sup>-1</sup>	0,15	Р
	Dazzling 10s on / 10s off	no alarm and fault signal	Р
	The response threshold after dazzling, (m), dB m <sup>-1</sup>	0,10	Р
	with orientation 135°		-
	The response threshold befor dazzling, (m), dB m <sup>-1</sup>	0,13	Р
	Dazzling 10s on / 10s off	no alarm and fault signal	Р
	The response threshold after dazzling, (m), dB m <sup>-1</sup>	0,10	Р
5.6.3	Requirements		Р
	During the periods when the switching sequences are being conducted and when the lamps are all on for at least 1 min, the specimen shall emit neither an alarm nor fault signal		Р
	For each orientation, the ratio of the response thresh greater than 1,6:	nold m <sub>max</sub> :m <sub>min</sub> shall not be	Р
	orientation 225°	1,5	Р
	orientation 135°	1,3	Р
5.7	Dry heat		Р
5.7.1	Object	specimen 3	Р
5.7.2	Test procedure	orientation 225°	Р
	Conditioning	55°C, rate 1K min <sup>-1</sup> , 2 h	-
	The response threshold at 55°C, (m), dB m <sup>-1</sup> :	0,17	Р
5.7.3	Requirements		Р
	No alarm of fault signals shall be given during the conditioning	no alarm and fault signal	Р
	The ratio of the response threshold values m <sub>max</sub> :m <sub>min</sub> shall not be greater than 1,6	0,21	Р
5.8	Cold		P
5.8.1	Object	specimen 4	P
5.8.2	Test procedure	orientation 225°	Р
	Conditioning	0°C, rate 1K min <sup>-1</sup> , 2 h	
	The response threshold at 0°C, (m), dB m <sup>-1</sup> :	0,11	P
5.8.3	Requirement		Р
	No alarm or fault signals shall be given during the conditioning		Р
	The ratio of the response threshold values $m_{max}$ : $m_{min}$ shall not be greater than 1,6	1,27	Р

	Page 10 of 26	Report No.	1595-1-2016	
	EN 14604			
Clause	Requirement	Result-Remark	Verdict	
5.9	Damp heat		Р	
5.9.1	Object	specimen 5	Р	
5.9.2	Test procedure	orientation 225°	Р	
	Conditioning	40°C, 93%, 4 days	-	
	The response threshold after recovery period, (m), dB m <sup>-1</sup>	0,16	Р	
5.9.3	Requirements		Р	
	No alarm or fault signals shall be given during the conditioning		Р	
	The ratio of the response threshold values $m_{max}$ : $m_{min}$ shall not be greater than 1,6:	1,07	Р	
5.10	Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)		Р	
5.10.1	Object	specimens 6, 7	Р	
5.10.2	Test procedure		Р	
5.10.2.1	Reference	IEC 60068-2-42	Р	
5.10.2.2	State of the specimen during conditioning		N/A	
5.10.2.3	Conditioning	25°C; 93%; 25±5 ppm; 4 days	Р	
5.10.2.4	Final measurements	2020 ppin, radyo	Р	
	The response threshold specimen 6, (m), dB m <sup>-1</sup>	0,14	-	
	The response threshold specimen 7, (m), dB m <sup>-1</sup> :	0,14	-	
5.10.3	Requirements		Р	
	The ratio of the response threshold values m <sub>max</sub> :m <sub>mi</sub> than 1,6	shall not be greater	-	
	specimen 6	1,07	Р	
	specimen 7	1,07	Р	
5.11	Impact (operational)		Р	
5.11.1	Object	specimen 8	Р	
5.11.2	Test procedure		Р	
5.11.2.1	Apparatus	according to annex E	Р	
5.11.2.2	State of the specimen during conditioning		Р	
5.11.2.3	Conditioning	1,9J; 1,5m/s <sup>-1</sup> ; number of impacts: 1.	Р	
5.11.2.4	Measurements during conditioning	no alarm and fault signal	Р	
5.11.2.5	Final measurements		Р	
	The response threshold after recovery period, (m), dB m <sup>-1</sup>	0,15	Р	
5.11.3	Requirements		Р	
	The impact shall not detach the alarm from its base, or the base from the mounting	no alarm and fault signal	Р	
	The cover of the smoke alarm shall not unscrew or open		Р	
	The ratio of the response threshold values $m_{max}$ : $m_{min}$ shall not be greater than 1,6	1,07	Р	

	Page 11 01 26		595-1-2016	
	EN 14604			
Clause	Requirement	Result-Remark	Verdict	
5.12	Vibration (operational)		P	
5.12.1	Object	specimen 9	<u>.</u> Р	
5.12.2	Test procedure	op comment	P	
5.12.2.1	Reference	EN 60068-2-6	P	
5.12.2.2	State of the specimen during conditioning		Р	
5.12.2.3	Conditioning	10 to 150Hz; 5 ms- <sup>2</sup> 3 axes; 1 octave	Р	
5.12.2.4	Measurements during conditioning	no alarm and fault signal	Р	
5.12.2.5	Final measurements	no damage	Р	
	The response threshold, (m), dB m <sup>-1</sup>	0,15	Р	
5.12.3	Requirements		Р	
	The ratio of the response threshold values m <sub>max</sub> :m <sub>min</sub> shall not be greater than 1,6	0,18	Р	
	T	1		
5.13	Vibration (endurance)		P	
5.13.1	Object	specimen 9	Р	
5.13.2	Test procedure	JEO 00000 0 0	P	
5.13.2.1	Reference	IEC 60068-2-6	P	
5.13.2.2	State of the specimen during conditioning	10 to 150Hz; 10ms <sup>-2</sup>	Р	
5.13.2.3	Conditioning	3 axes; 1 octave min <sup>-1</sup> 20 per axis	Р	
5.13.2.4	Final measurements		Р	
	The response threshold, (m), dB m <sup>-1</sup>	0,20	Р	
5.13.3	Requirements		Р	
	The ratio of the response threshold values m <sub>max</sub> :m <sub>min</sub> shall not be greater than 1,6	1,25	Р	
		/ C D		
5.14	Electromagnetic Compatibility (EMC), immunity tests  The following EMC immunity tests shall be carried or		Р	
	50130-4:1995:	ut, as described in EN		
a)	mains supply voltage dips and short interruptions;		N/A	
b)	electrostatic discharge		Р	
	Electrostatic Discharges (ESD): contact ESD – ±6 kV, air ESD – ±8 kV; 1 discharge per second	No damage, malfunction or change of status after the tests applications were observed.  During the test applications of contact discharges to protective metal grids (except the grid located at the side below from the logo AJAX) sometimes a short green flashing of the indicator was observed.  During the test applications to other surfaces response from the EUT was no observed	-	

EN 14604			
Clause	Requirement	Result-Remark	Verdict
c)	radiated electromagnetic fields	see. tabl. 5.14	Р
	Radiated electromagnetic fields, 801000 MHz: 10 V/m, AM 80%, 1kHz, step 1%, 6 s dwell time	During the test application in the range of the operating frequencies (868868.6 MHz) the auxiliary equipment displayed the message about a loss of the connection with the EUT, after the test application the connection self restored. During the tests applications in the frequency range, except operating frequencies, no damage, malfunction or change of status were observed.	-
	Radiated electromagnetic fields, 801000 MHz: 10 V/m, PM, 1Hz (0,5 s ON, 0,5 s OFF), step 1%, 6 s dwell time	see above	-
d)	conducted disturbances induced by electromagnetic fields		N/A
e)	fast transient bursts		N/A
f)	slow high-energy voltage surges		N/A
	The required operating condition shall be as described in 5.1.2		Р
	For these tests the criteria for compliance specified in EN 50130-4 and the following shall apply		Р
1)	The functional test, called for in the initial and final m follows:	neasurements, shall be as	
	- the response threshold value shall be measured as described in 5.1.5		Р
	- the greater of the response threshold value measured shall be designated ymax or mmax, and the lesser shall be designated $y_{\text{min}}$ or $m_{\text{min}}$		Р
	The response threshold specimen 10, (m), dB m <sup>-1</sup>	0,12	-
	The response threshold specimen 11, (m), dB m <sup>-1</sup>	0,13	-
2)	The acceptance criteria for the functional test after the follows:	he conditioning shall be as	
	The ratio of the response threshold values m <sub>max</sub> :m <sub>min</sub> shall not be greater than 1,6		Р
	specimen 10	1,45	-
	specimen 11	1,23	-
5.15	Fire sensitivity		
5.15.1	Object	specimens 17, 18, 19,20	Р
5.15.2	Test procedure		Р
5.15.2.1	General		Р
5.15.2.2	Mounting of the specimens	orientation 225°	Р
5.15.2.3	Initial conditions	see tables 5.15	Р
5.15.2.4	Recording of the fire parameters and response values	1s	Р

	Page 13 01 26		. 1595-1-201
	EN 14604		
Clause	Requirement	Result-Remark	Verdict
5.15.3	Requirements		Р
	All four specimens shall generate an alarm signal	see tabl. 5.15	Р
	· ····································		<u> </u>
5.16	Battery fault warning		Р
5.16.1	Object	specimen 9	Р
5.16.2	Test procedure		Р
5.16.2.1	Connect the alarm as shown in Figure 1 and apply the tests described in 5.16.2.2 to 5.16.2.5		Р
5.16.2.2	With the series resistor R set to zero and the	R=0 Ohm	Р
	supply voltage V  The response threshold , (m), dB m <sup>-1</sup>	V <sub>R</sub> =3,0 V 0,16	_
5.16.2.3	With the series resistor R set to zero, decrease the supply voltage V in stages of 0,1 volts	V <sub>E</sub> =2,6 V	Р
	The response threshold , dB/m	0,18	-
5.16.2.4	With the supply voltage V set at $V_R$ , increase the resistance of the series resistor R from zero in increments of 1 $\Omega$ at intervals of at least 1 min	R <sub>A</sub> =1 Ohm	Р
	The response threshold, (m), dB m <sup>-1</sup>	0,18	-
5.16.2.5	Repeat the procedure described in 5.16.2.4 with the supply voltage V set at:		Р
	$0.75 (V_R - V_E) + V_E = 2.9 V$	R <sub>B</sub> = 1 Ohm	
	$0.5 (V_R - V_E) + V_E = 2.8 V$	R <sub>C</sub> = 1 Ohm	
	$0.25 (V_R - V_E) + V_E = 2.7 V$	$R_D = 1 \text{ Ohm}$	
	The response threshold, (m), dB m <sup>-1</sup>	0,18	-
	The response threshold, (m), dB m <sup>-1</sup>	0,17	-
	The response threshold, (m), dB m <sup>-1</sup>	0,17	-
5.16.3	Requirements		Р
	The ratio of the response thresholds shall be not less than 0,625 and not greater than 1,6	1,13	Р
5.17	Sound output		Р
5.17.1	Object	specimen 1, 15	Р
5.17.2	Method of test	mounting board as described in EN 54-3	Р
5.17.3	Requirements		Р
	For battery operated alarms, the sound output shall be at least 85 dB(A) at 3 m after 1 min of alarm operation and at least 82 dB(A) after 4 min		Р
	Sound level specimen 1 after 1 minute, dB(A):	85	Р
	Sound level specimen 1 after 4 minutes, dB(A):	85	Р
	Sound level specimen 15 after 1 minute, dB(A):	86	Р
	Sound level specimen 15 after 4 minutes, dB(A):	85	Р
	For mains powered alarms, the sound output shall be at least 85 dB(A) at 3 m after 4 min		N/A
	For both battery operated and main powered alarms, the maximum sound output shall be 110 dB(A) at 3 m after 1 min of alarm operation		N/A
	The maximum nominal frequency shall not exceed 3,5 kHz		Р

	Page 14 of 26	Report No.	1595-1-2016
	EN 14604		
Clause	Requirement	Result-Remark	Verdict
5.18	Sounder durability		Р
5.18.1	Object	specimen 15	Р
5.18.2	Test procedure	4 hour; 5 min OFF / 5 min ON	Р
5.18.3	Requirements		Р
	For battery operated alarms, the sound output shall be at least 85 dB(A) at 3 m after 1 min of alarm operation and at least 82 dB(A) after 4 min		Р
	Sound level specimen after 1 minute, dB(A):	86	Р
	Sound level specimen after 4 minutes, dB(A):	85	Р
5.19	Inter-connectable smoke alarms		N/A
0.10	The semicolarie and the		1,471
5.20	Alarm silence facility (optional)		Р
5.20.1	Object		Р
	If means of temporarily disabling or desensitising a sthe following shall apply:	smoke alarm are provided	
a)	The initiation of the alarm silence period shall require the operation of a manual control on the smoke alarm	touch-sensitive button «Test»	Р
b)	Operation of the alarm silence control shall desensitise the smoke alarm for at least 5 min	10 min	Р
c)	Alarm silence control shall not lead to the smoke alarm being desensitised for more than 15 min		Р
5.20.2	Test requirement		Р
5.20.2.1	Generate smoke in accordance with 5.1.5, in the smoke tunnel specified in Annex A	3,0 V m = 0,51	Р
5.20.2.2	Repeat the test in 5.20.2.1 but with a supply voltage of VE, as determined in 5.16.2.3	2,6 V m = 0,51	Р
5.20.2.3	Measure the response threshold after the operation of the alarm silence control		Р
	The response threshold , (m), dB m <sup>-1</sup>	0,17	-
5.20.2.4	Repeat the test described in 5.20.2.3 but with a supply voltage of VE, as determined in 5.16.2.3	2,6V	Р
	The response threshold, (m), dB m <sup>-1</sup> :	0,19	-
5.20.2.5	Repeat the test in 5.20.2.3 but, after operating the alarm silence control, hold the control on continuously for the remainder of the test.		Р
	The response threshold , (m), dB m <sup>-1</sup>	0,17	-
5.20.3	Requirements		Р
5.20.3.1	When tested in accordance with 5.20.2.1 and 5.20.2.2, the alarm shall not emit an alarm signal during the first 5 min		Р
5.20.3.2	The ratio of the response thresholds to the response threshold recorded for alarm number 16 shall be not less than 0,625 and not greater than 1,6		Р
	The ratio to measure 5.20.2.3	1,00	-
	The ratio to measure 5.20.2.4	1,12	-
5.20.3.3	When tested in accordance with 5.20.2.5 either:		Р
a)	within 15 min shall emit an audible signal; or		Р

	Page 15 of 26	Report No	o. 1595-1-2016
	EN 14604		
Clause	Requirement	Result-Remark	Verdict
		1	<b>'</b>
b)	the ratio of the response threshold shall be not less than 0,625 and not greater than 1,6	1,00	Р
5.21	Variation in auraly valtage		Р
5.21.1	Variation in supply voltage  Object	specimen 2	P
5.21.2	Test procedure	specimen 2	P
3.21.2	The response threshold with orientation 225° and		F
	3,0V, (m), dB m <sup>-1</sup>	0,14	-
	The response threshold with orientation 225° and 2,6V, (m), dB m <sup>-1</sup>	0,15	-
5.21.3	Requirements		Р
	The ratio of the response threshold values $m_{max}$ : $m_{min}$ shall not be greater than 1,6	1,07	Р
	The lower response threshold value m min shall not be less than 0,05 dB m <sup>-1</sup>		Р
			1
5.22	Battery reversal		Р
5.22.1	Object	specimen 16	Р
5.22.2	Test procedure		Р
	The response threshold, (m), dB m <sup>-1</sup>	0,15	-
5.22.3	Requirements		Р
	The ratio of the response threshold values $m_{max}$ : $m_{min}$ shall not be greater than 1,6	1,13	Р
	When voltage V <sub>E</sub> minus 5 % is applied, the battery fault warning shall be given	2,47 V	Р
5.23	Back-up power source	1	N/A
5.23.1	Object		N/A
5.23.2	Test procedure		N/A
5.23.2.1	Low back-up		N/A
5.23.2.2	Open circuit		N/A
5.23.2.3	Short-circuit		N/A
5.23.3	Requirements		N/A
F 04	Floatrical potety		
5.24	Electrical safety		Р
5.24.1	Marking		Р
5.24.2	Heating under normal operating conditions	00.4	Р
	ambient T°(C)	22,1	-
	accessible parts T°(C)	23,4	-
	internal battery CR2 T°(C)	27,1	-
F 04.0	internal battery CR2032 T°(C)	22,8	- N1/A
5.24.3	Shock hazard under normal operating conditions	no hazardous voltage	N/A
5.24.4	Insulation requirements	3 VDC	N/A
5.24.5	Fault conditions		Р

ambient T°(C)....

accessible parts T°(C).....

22,6

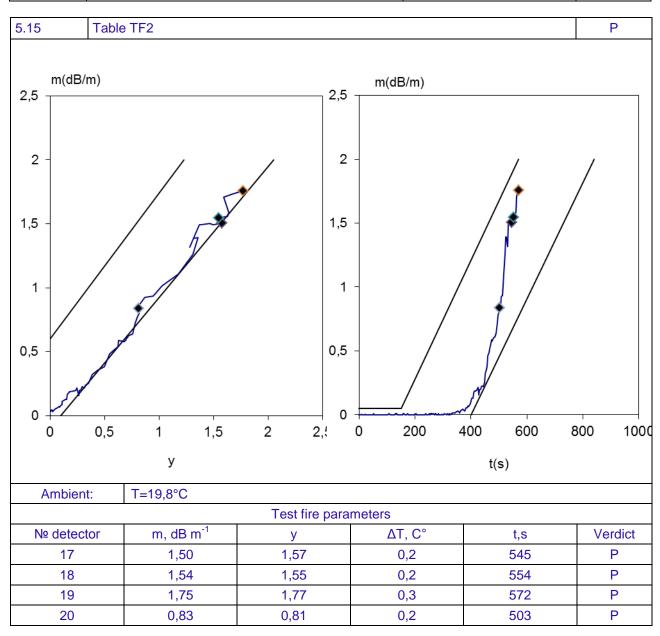
25,8

N/A

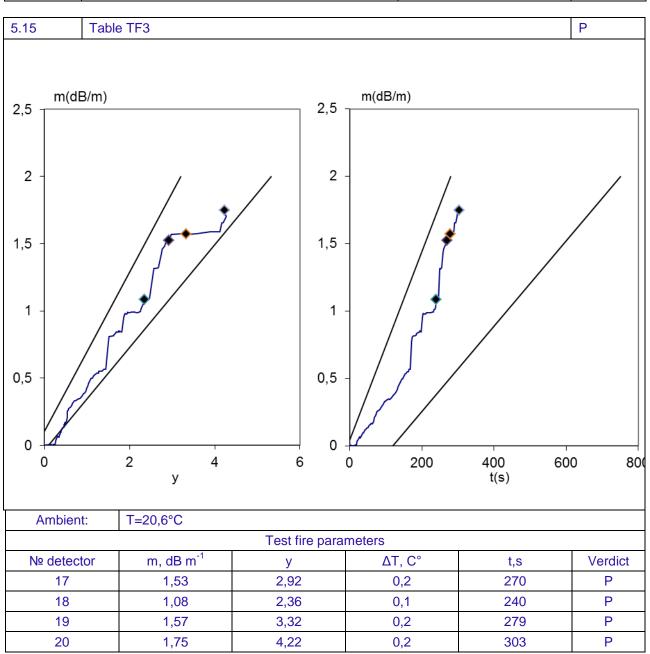
Products Directive (89/106/EEC)

ZΑ

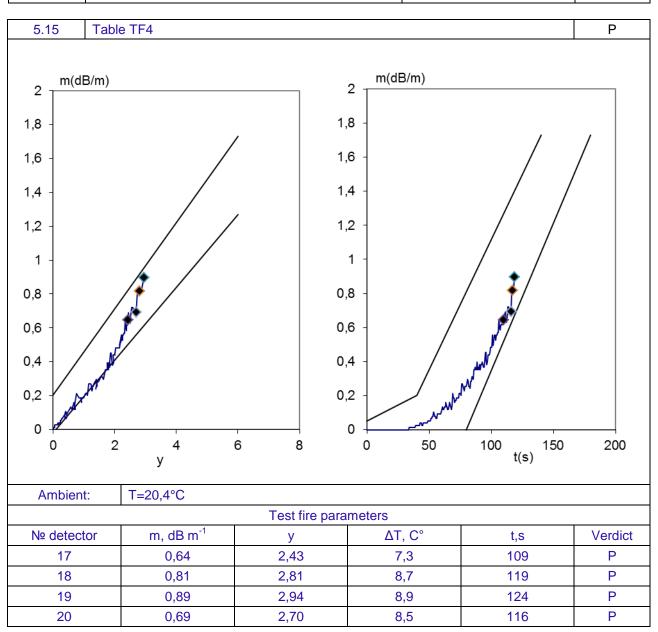
	EN 14604		
Clause	Requirement	Result-Remark	Verdict



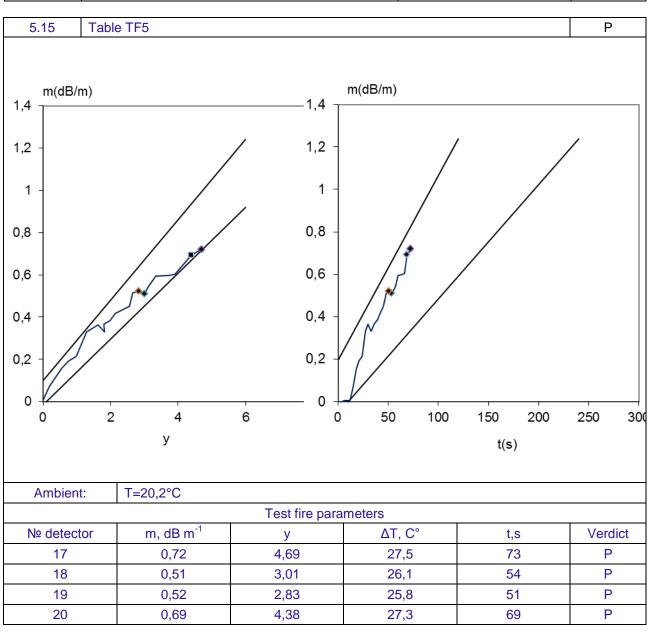
	EN 14604		
Clause	Requirement	Result-Remark	Verdict



EN 14604				
Clause	Requirement	Result-Remark	Verdict	



	EN 14604		
Clause	Requirement	Result-Remark	Verdict





Phot 1-1



Phot 1-2



Photo 2-1



Photo 2-2



Photo 3-1



Photo 3-2

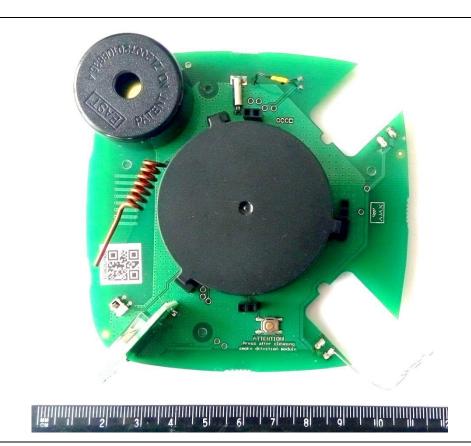


Photo 4-1

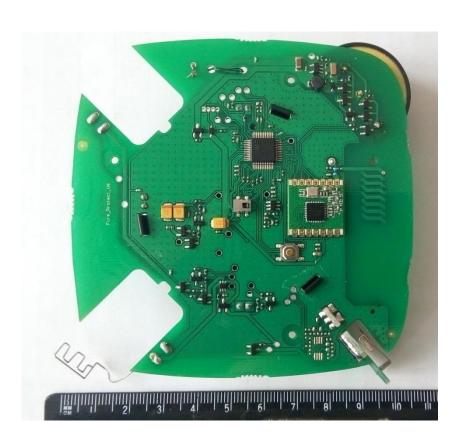


Photo 5-2



Photo 6-1



Photo 6-2

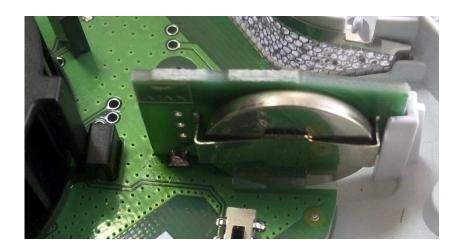


Photo 7-1



Photo 8-2