

6. TRANSPORTATION AND STORAGE

6.1 Transportation conditions for the detector should correspond to the storage conditions 2 according to GOST 15150 under the temperature from 55°C below zero to 85°C above zero.

6.2 The detector should be stored in a package in the room corresponding to the storage conditions 1 according to GOST 15150.

6.3 Detectors may be shipped by all transport means in covered transport vehicles in accordance with the requirements of regulatory documents. Boxes should not be subjected to punches and atmospheric precipitations during handling operations and transportation.

The type of packing boxes on the vehicle should eliminate their movement.

6.4 In case of long-term storage it is necessary to carry out an audit of detectors in 24 months.

7. OPERATING HINTS

7.1 Explosion-Proof Heat Fire Detector IP101-07e (IP 101-07e-TE) should be operated in regimes and conditions defined in Operation Manual 4371-004-43082497-01-02 PC.

8. CERTIFICATES



The conformance certificate of the Certification system of GOST R of Russian State Standard is issued to the close company "Eridan" by the certification authorities for explosion-proof measurement instrumentations of CA EPMI "VNIFTRI".



The Certificate of fire safety is issued to the close company "Eridan" by certification authorities "FIRETEST" Federal State Institution of All-Russian Research Institute for Fire Protection the Ministry of Emergency Situations of Russia.



Company quality management system conforms to requirements GOST R ISO 9001-2008 (ICO 9001:2008).

9. TEST CERTIFICATE

IP 101-07e detector (IP 101-07e-TE) works number No _____ kitting K _____ meets the specifications of 4371-004-43082497-01 standard, is acknowledged as exploitable for service in class _____ (_____ °C).

Date of issue _____

Signature of persons accountable for acceptance _____ Seal
(signature)

10. PACKAGE DATA

IP 101-07e detector (IP 101-07e-TE) works number _____ kitting K _____ is packaged by the Close company "Eridan", i.e. 12 Lenina St, Beryozovsky, Sverdlovskaya oblast according to the requirements set by 4371-004-43082497-01 standard.

Package date _____

Package is produced by _____ Seal
(signature)

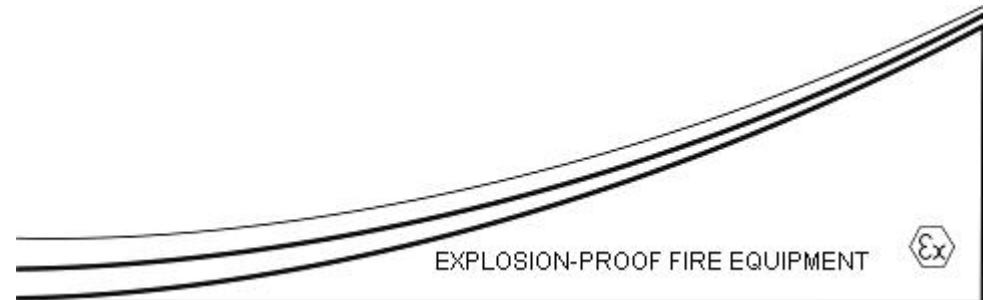
The product after packaging was accepted by _____
(signature)



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**EXPLOSION-PROOF
Heat Fire Detector
IP101-07e**

CERTIFICATE
4371-004-43082497-01-02
PC (production certificate), 2011



1. PRODUCT DESIGNATION

Explosion-Proof Heat Fire Detector IP101-07e is applied in fire alarm systems and it is designed to generate electric signal in case of environment temperature rise above the given set point by interruption (interlocking) of loop circuit of fire alarm and turning on of light indication of the detector.

Hardware climatic version is 0m2 **, atmosphere type is III in accordance with GOST 15150, the degree of protection is IP 67.

Detector has explosion-proof versions and it is produced in two modifications:

1) The detector with “d” explosion-proof case and an explosion-proof marking 1ExdIICT4/T5/T6 X in accordance with GOST R 51330.0.

2) IP101-07e - TE is equipped with the terminal element (K5, K6, K9 set) and it has “d” explosion-proof case, internal spark-proof circuit [ia], an explosion-proof marking 1Exd[ia]IICT4/T5/T6 X with GOST R 51330.0.

Sign "X" in an explosion-proof marking means that when used it is necessary to protect the tube of the sensitive element from mechanical shocks.

Detector corresponds to the fire safety requirements of GOST R 53325.

Detector can be installed in explosion-proof areas of premises and outdoor installations according to the classification in chapter 7.3 EIC - Electrical Installations Code (the sixth edition) and other directory documents regulating the electric equipment application in explosion hazard conditions.

Environment can contain explosion-proof mixture of gases and vapors with air categories IIA, IIB and IIC.

Detectors manufacture is possible only in presence of valid Fire security Certificate and Accordance certificate.

2. GENERAL SPECIFICATIONS

2.1 Response temperature: 54 – 115⁰C (A1-D classes). Response temperature is set by the producer and shall not be subject to change.

2.2 The range of voltage level is 8-28 V from constant-current or pulse current source when the duration of positive impulse is not less than 0,5 seconds, and with the duration of negative impulse no more than 0,1 seconds.

2.3 Maximum current the detector consumes:

in standby mode for IP101-07e, no more than, 30 μ mA;
for IP101-07e - TE, no more than, 80 μ mA;
with the light indication response, no more than, 0,35 mA.

2.4 Maximum current through the detector electronic keys should not exceed 200 mA. Detector is not intended for operation with inductive load.

2.5 Operating conditions of the detector:

a) ambient air temperature for corresponding temperature classes:

T4 from 55⁰C below zero to 115⁰C above zero;
T5 from 55⁰C below zero to 100⁰C above zero;
T6 from 55⁰C below zero to 85⁰C above zero;

b) relative air humidity 100% with temperature not more than 25⁰C and atmosphere pressure from 84 to 106,7 kPa (from 630 to 800 mm Mercury).

2.6 Impedance of detector in the loop is no more than 0,3 Ohm.

2.9 Detector's overall dimensions with two screwed cable inlets are no more than 238x104x81 mm. The length of the sensitive element's pipe is 73 \pm 2 mm.

2.10 Detector's mass is no more than 1,0 kg.

2.11 Designated lifetime is 10 years.

3. DELIVERY CONTENTS

Total packaging of the detector

Denotation	Name	Quantity	Note
4371-004-43082497-01	Detector	1	
	O- ring Ø8 mm for 6-8 mm cable Ø10 mm for 8-10 mm cable	2 2	
	Washer	2	
	Plug	1	Per package
	Clip key WAGO	1	Per package
	Special key	1	Per package
	Safety cap	1	
4371-004-43082497-01-02 OM	Operation manual	1	Per package
4371-004-43082497-01-02 PC	Certificate	1	
	Fire certificate and ATEX certificate	1 1	Per consignment

Packaging of the detector lead-in devices (on order)

Set #	Set contents
K1	CP+CP
K2	CI12+CI12
K3	CP+TP
K4	CI12+TP
K5	CP+TE
K6	CI12+TE
K7	CI15+CI15
K8	CI15+TP
K9	CI15+TE

Notation Conventions:

CP - connecting pipe for installation in the pipe arrangement with the thread G $\frac{1}{2}$ ";
CI12 - cable inlet for the armored cable with Ø of the armor is up to 12mm or metal hose with nominal diameter D=10 mm;
TP - terminal plug;
TE - terminal element of the loop with the light indication;
CI15 - cable inlet for installation by the armored cable in the metal hose with nominal diameter D=15 mm.

4. PRODUCT WARRANTY

4.1 The producer guarantees that the detector conforms with the requirements of technical conditions and construction documentation if the consumer observes storage, transportation and operation regulations.

4.2 Storage warranty period is 36 months from the date of the detector's production.

4.3 Operation warranty period of the detector is 24 months from the date of putting the detector into operation but no more than 36 months from the date of the detector's production.

5. INFORMATION ABOUT RECLAMATION

5.1 The consumer summons the representative of the manufacturer in case of failure and defect detections in products caused by the producer's fault. In case of the latter's failure to appear within a month, the formal notice is drawn up unilaterally, and the detector is sent back to the producer together with the certificate and formal notice.

5.2 The manufacturer is to ship the detector in a good condition within 2 weeks from the date of formal notice receipt.

5.3 The producer does not accept claims after the expiration of the operation warranty; in case there is no the detector certificate; operation regulations are violated.