



OBAC



Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-122 Gliwice, ul. Toruńska 27

(1) CERTIFICATE OF CONFORMITY

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 94/9/EC.
(Decree of Minister of Economy of Dec. 22, 2005, Official Journal No.263, Pos. 2203).
- (3) Certificate of conformity No.: **OBAC 13 CZ/ATEX 0569X**
- (4) Equipment or protective system: **ACQUEX Luminaire**
- (5) Manufacturer: **Zalux S.A.**
- (6) Address: **Centro Empresarial Miralbueno. Ctra. Madrid, Km 315,7, Planta 1a.
Local P-2. 500012 Zaragoza**
- (7) This equipment or protective system and any of its approved version is specified in this certificate and in documents listed in p. 19.
- (8) The "OBAC" Institute for Research and Certification Ltd. certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective systems intended for use in potentially explosive atmospheres given in Annex II to the 94/9/EC Directive of 23 March 1994.
The examination results are recorded in confidential report no.: OBAC/13/ATEX/0569.
- (9) Compliance with the Safety Requirements has been assured by conformity with:
PN-EN 60079-0:2009 **PN-EN 60079-15:2010** **PN-EN 60079-31:2011**
(EN 60079-0:2009) (EN 60079-15:2010) (EN 60079-15:2009)
- (10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to special conditions for safe use specified in the Annex to this certificate.
- (11) This certificate is valid from 2013-11-22 until 2018-11-21 and relates only to the product item (s) having properties (parameters) identical to those of the model (s) assessed and meeting the requirements specified in item 9 of this certificate.
- (12) The marking of this equipment or protective system shall include the following:

II 3G Ex nA IIC T6 Gc

II 3D Ex t IIC T85°C Dc



**Vice President of Board
of the "OBAC" Institute
for Research and Certification Ltd.**

Piotr Tarnawski M.Com.

Gliwice, 22 November 2013



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44-122 Gliwice, ul. Toruńska 27

(13) **SCHEDULE**
(14) **to the Certificate Of Conformity**
No. OBAC 13 CZ/ATEX 0569X

(15) Description of Ex equipment or protective system:

The ACQUEX Luminaire is designed for illumination of places included into 2 and 22 zones of gas and dust explosion hazard. It may be used in chemical petrol, petrochemical, gas, gas- distribution industries as well as when processing the bulk mining and construction materials. The luminaire is provided with plastic cable entries and electronic ballast element.

The package body is made of polyester reinforced with GRP glass fibre, while the antidazzle casing is made of PC polycarbonate having lens-like regularities from its inside. The accessories fastening the luminaire are made of stainless steel or of plastic. The luminaires included in this certificate are intended for indoor use or under shelter for outdoor use.

Rated data:

Supply voltage	230 V AC/DC 50-60(0) Hz, 110V acc. to version
Permissible ambient temperature	from -20°C to +40°C
Protection class	I
Illumination efficiency	0,7
Protection level	IP 66
Mass	1,8 kg ÷ 5 kg (acc. to verision)
Light source acc. to verison	T8 Fluorescent lamps of 18W, 36W, 58W power T5 Fluorescent lamps, of 14W, 24W, 28W, 35W, 49W, 54W, 80W power

(16) Reports:

- "OBAC" Institute for Research and Certification Ltd. Laborex Laboratory. Examination report no. LL/223/2013 Gliwice, 17 Oct. 2013.
- Innovation Technology Institute EMAG. Examination report No. 3014 – ZLK/2013 Katowice, 11 Oct. 2013.

The ACQUEX Luminaire meets the requirements for explosion-proof equipment and may be used as the device of equipment group II, category 3.

(17) Special conditions for safe use:

- The ACQUEX is designed for stationary installations.
- The equipment shall be visibly provided with an additional marking warning against the possible electrostatic discharge: **WARNING – ELECTROSTATIC DISCHARGE HAZARD – SEE INSTRUCTIONS.**



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(13)

SCHEDULE

(14)

to the Certificate Of Conformity
No. OBAC 13 CZ/ATEX 0569X

(18) The compliance with Safety Requirements has been assured by compliance with standards shown in p.9 of this certificate.

(19) List of agreed documentation:

- INSTRUCTIONS „Explosionproof luminaire ACQUEX ” Nr 10108459. Zaragoza, June 2013.
- ACQUEX Luminaire, Drg. No. 10107904 Sheet 3.



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(1) **SCHEDULE No. 1**
to
the Certificate of Conformity No. OBAC 13 CZ/ATEX 0569X

(2) Equipment or protective system: **ACQUEX Luminaire**

(3) Manufacturer: **Zalux S.A.**

(4) Address: **Centro Empresarial Miralbueno. Ctra. Madrid, Km 315,7, Planta 1a.**
Local P-2. 500012 Zaragoza

(5) Compliance with the Safety Requirements has been assured by conformity with:

PN-EN 60079-0:2013
(EN 60079-0:2012)

PN-EN 60079-15:2010
(EN 60079-15:2010)

PN-EN 60079-31:2011
(EN 60079-31:2009)

(6) Description of modifications:

- Updating of PN-EN 60079-xx standard series.
- Introduction of the following new versions of luminaires apart from the existing luminaires including the tube fluorescent lamps of T5 and T8 types:
 - luminaire including the T5 and T8 tube fluorescent lamps to be supplied by one- or three-hour Ni-Cd battery. See Table no. 1;
 - luminaire with LED module. See Table no. 2;
 - luminaire with LED module to be supplied by the three-hour Ni-Cd battery;
 - luminaire version capable to cooperate with central battery.

Table no. 1.

Designation	Power [W]	Supply
ACQUEX 2-114 E PC INOX	1 x 14	Electronic 230V AC/DC
ACQUEX 2-124 E PC INOX	1 x 24	
ACQUEX 2-118 E PC INOX	1 x 18	
ACQUEX 2-128 E PC INOX	1 x 28	
ACQUEX 2-154 E PC INOX	1 x 54	
ACQUEX 2-135 E PC INOX	1 x 35	
ACQUEX 2-149 E PC INOX	1 x 49	
ACQUEX 2-136 E PC INOX	1 x 36	
ACQUEX 2-158 E PC INOX	1 x 58	
ACQUEX 2-180 E PC INOX	1 x 80	



**Certification Body
Manager**

Piotr Tarnawski M.Com.

Gliwice, 14 November 2014



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(1) **SCHEDULE No. 1**
to
the Certificate of Conformity No. OBAC 13 CZ/ATEX 0569X

ACQUEX 214 E PC INOX	2 x 14	
ACQUEX 224 E PC INOX	2 x 24	
ACQUEX 218 E PC INOX	2 x 18	
ACQUEX 228 E PC INOX	2 x 28	
ACQUEX 254 E PC INOX	2 x 54	
ACQUEX 235 E PC INOX	2 x 35	
ACQUEX 249 E PC INOX	2 x 49	
ACQUEX 236 E PC INOX	2 x 36	
ACQUEX 258 E PC INOX	2 x 58	
ACQUEX 2-128 E EB1h PC INOX	1x28	
ACQUEX 2-128 E EB3h PC INOX	1x28	
ACQUEX 2-135 E EB1h PC INOX	1x35	
ACQUEX 2-135 E EB3h PC INOX	1x35	
ACQUEX 2-136 E EB1h PC INOX	1x36	
ACQUEX 2-136 E EB3h PC INOX	1x36	
ACQUEX 2-149 E EB1h PC INOX	1x49	
ACQUEX 2-149 E EB3h PC INOX	1x49	
ACQUEX 2-154 E EB1h PC INOX	1x54	
ACQUEX 2-154 E EB3h PC INOX	1x54	
ACQUEX 2-180 E EB1h PC INOX	1x80	
ACQUEX 2-180 E EB3h PC INOX	1x80	
ACQUEX 214 E EB1h PC INOX	2x14	
ACQUEX 214 E EB3h PC INOX	2x14	
ACQUEX 224 E EB1h PC INOX	2x24	
ACQUEX 224 E EB3h PC INOX	2x24	
ACQUEX 228 E EB1h PC INOX	2x28	
ACQUEX 228 E EB3h PC INOX	2x28	
ACQUEX 235 E EB1h PC INOX	2x35	
ACQUEX 235 E EB3h PC INOX	2x35	
ACQUEX 249 E EB1h PC INOX	2x49	



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(1)

SCHEDULE No. 1

to

the Certificate of Conformity No. OBAC 13 CZ/ATEX 0569X

ACQUEX 249 E EB3h PC INOX	2x49	
ACQUEX 254 E EB1h PC INOX	2x54	
ACQUEX 254 E EB3h PC INOX	2x54	
ACQUEX 218 E EB1h PC INOX	2x18	
ACQUEX 218 E EB3h PC INOX	2x18	
ACQUEX 236 E EB1h PC INOX	2x36	
ACQUEX 236 E EB3h PC INOX	2x36	
ACQUEX 258 E EB1h PC INOX	2x58	
ACQUEX 258 E EB3h PC INOX	2x58	

Table no. 2.

Designation	Power [W]	Supply
ACQUEX LED-M 600 ET PC INOX	21	Electronic 230V AC/DC
ACQUEX LED-M 1200 ET PC INOX	36	
ACQUEX LED-M 1500 ET PC INOX	44	
ACQUEX LED-M 1200 ET EB3h PC INOX	36	
ACQUEX LED-M 1500 ET EB3h PC INOX	44	

Rated data:

Supply voltage: 230 V AC/DC 50-60(0) Hz, 110V acc. to version
230 V AC 50-60Hz – version with battery

Battery: 1h version Ni-Cd 1,8 Ah 4,8V or 3h version Ni-Cd 4,5 Ah 4,8V

The remaining rated data are the same as in the OBAC 13 CZ/ATEX 0569X certificate



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(1) **SCHEDULE No. 1**
to
the Certificate of Conformity No. OBAC 13 CZ/ATEX 0569X

(7) Result of tests performed:

- “OBAC” Institute for Research and Certification Ltd. LABOREX Laboratory. Examination Report No. LL/153/2014/A. Gliwice, 12 Nov. 2014.
- EMAG Innovation Technology Institute. Test report No. 3309-ZLK/2014. Katowice, 30 Sept. 2014.

The explosion-proof manufacture has been confirmed in the confidential product assessment report no: OBAC/14/ATEX/0310

The modifications performed meet the requirements for equipment group II category 3.

The marking of explosion-proof version remains as previously:  II 3 G Ex nA IIC T6 Gc
 II 3 D Ex t IIIC T85°C Dc

(8) Special conditions for safe use:

- WARNING – DO NOT CHANGE THE BATTERY WHEN THE EXPLOSIVE ATMOSPHERE IS POSSIBLE.
- The remaining special conditions for safe use stay the same as in the OBAC 13 CZ/ATEX 0569X certificate.

(9) Technical documentation:

- Instructions „Explosionproof luminaire ACQUEX and ACQUEX EB”, Zaragoza, October 2014.
- Instructions „Explosionproof luminaire ACQUEX LED and ACQUEX LED+EB”, Zaragoza, October 2014.



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(1) **Schedule no. 2**
to
the Certificate no. OBAC 13 CZ/ATEX 0569X
(Translation)

(2) Equipment, components and protective systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) Product: **ACQUEX Luminaire**

(4) Manufacturer: **Zalux S.A.**

(5) Address: **Centro Empresarial Miralbueno. Ctra. Madrid, Km 315,7, Planta 1a.
Local P-2. 500012 Zaragoza**

(6) Compliance with the Safety Requirements has been assured by conformity with:

PN-EN 60079-0:2013
(EN 60079-0:2012)

PN-EN 60079-15:2010
(EN 60079-15:2010)

PN-EN 60079-31:2014
(EN 60079-31:2014)

(7) Description of modifications:

- A new version of Acquex luminaire is introduced. New version covers expansion of LED luminaires' series with a luminaire type: Acquex LED-T5 UG5 2x1.5 ET PC INOX. Light source consists of LED strips placed in matt glass tubes installed in place of regular fluorescent lamps.
- Update of PN-EN 60079-xx standards' series


Type designation after introduction of changes: **ACQUEX LED TUBE**

(8) Results of the examinations performed:

- Number LL/0100/2016/A of 06.07.2016.

The explosion-proof execution has been proved in the confidential product assessment report no. OBAC/16/ATEX/0177

The introduced changes meet the requirements for equipment of group II category 3G and group II 3D.

The explosion-proof design marking remains as follows:  II 3G Ex nA IIC T6 Gc or

 II 3D Ex t IIIC T85°C Dc

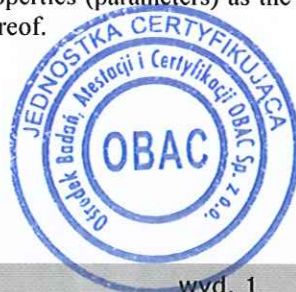
(9) Special conditions for safe operation:

- Do not change and are the same as in the certificate no. OBAC 13 CZ/ATEX 0569X

(10) Technical documentation:

- INSTRUCTIONS „Explosionproof luminaire ACQUEX LED TUBE”, Zaragoza, June 2016.
- ACQUEX LED T5 UG5 2x1.5 ET PC INOX. No. 1002546375 00 of 14.01.2016.

The annex to the certificate is valid in the period from **14.07.2016** to **21.11.2018** and applies only to these specimen of the product(s) which have identical properties (parameters) as the model(s) submitted for assessment and which meet the requirements specified in point 6 hereof.



**Certification Body
Manager**

Piotr Tarnawski M. Com.

Gliwice, 14th July 2016



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(1)

Schedule no. 2

to

the Certificate no. OBAC 13 CZ/ATEX 0569X

(Translation)

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(4) Manufacturer: **Zalux S.A.**

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The introduced changes meet the requirements for equipment of group II category 3G and group II 3D.

The explosion-proof design marking remains as follows:  II 3G Ex nA IIC T6 Gc or

 II 3D Ex t IIC T85°C Dc

(9) Special conditions for safe operation:

– Do not change and are the same as in the certificate no. OBAC 13 CZ/ATEX 0569X

(10) Technical documentation:

– INSTRUCTIONS „Explosionproof luminaire ACQUEX LED TUBE”, Zaragoza, June 2016.

– ACQUEX LED T5 UG5 2x1.5 ET PC INOX. No. 1002546375 00 of 14.01.2016.

The annex to the certificate is valid in the period from **14.07.2016** to **21.11.2018** and applies only to these specimen of the product(s) which have identical properties (parameters) as the model(s) submitted for assessment and which meet the requirements specified in point 6 hereof.



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Gliwice, 14th July 2016