



OBAC

Ósrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) **EU-TYPE EXAMINATION CERTIFICATE**

(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) EU type examination certificate No: **OBAC 17 ATEX 0144X**
- (4) Product: **Magnetic level controller ERH-xx-20/x/x/x-x-x/Ex**
- (5) Manufacturer: **APLISENS S.A.**
- (6) Address: **ul. Morelowa 7, 03-192 Warszawa**
- (7) This equipment, component or protective system and any of its approved version is specified in this certificate and in documents listed in p. 19.
- (8) The Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 17 of the European Council Directive 2014/34/EU of February 26, 2014, certifies that this equipment, component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment, component or protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. OBAC/17/ATEX/0144.
- (9) Compliance with the Safety Requirements has been assured by conformity with:
- | | |
|--|--|
| PN-EN 60079-0:2013
(EN 60079-0:2012) | PN-EN 60079-1:2014
(EN 60079-1:2014) |
|--|--|
- (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 schedule to this certificate.
- (11) This EU-type examination certificate relates only to the design, evaluation and tests of the specified equipment, component or protective system according to the Directive 2014/34/EU. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment, component or protective system.
- (12) The marking of the equipment, component or protective system must include the following:

Ex II 2G Ex db IIC T3÷T6 Gb



**Certification Body
Manager**

Piotr Tarnawski M. Com.

Gliwice, 29th June 2017



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(13)

SCHEDULE

(14)

to the EU-Type Examination Certificate
No. OBAC 17 ATEX 0144X

(15) Ex Product description:

The magnetic level controller ERH-xx-20 is intended to work in signaling systems of the level of medium. Depending on the version, the controller is available with a mechanical connection according to the specifications (e.g. flange 92mm x 92mm), head as a fixed element in explosion-proof design connected to a steel pipe, where the reed switches are placed. The entire structure of the controller is made of stainless steel.

The device includes devices which bear the EC type examination certificate:

- Multipin terminal strip BK 6/E - SIRA 01 ATEX 3247U

Designation:

ERH-02-20	Level controller with flange connection 92x92mm (4 holes $\Phi 14/\Phi 92$ mm)
ERH-04-20	Level controller with flange connection $\Phi 120$ (6 holes $\Phi 12/\Phi 100$ mm)
ERH-06-20	Level controller with flange connection DN80 PN40 (8 holes $\Phi 18/\Phi 160$ mm)
ERH-09-20	Level controller with threaded connection 2" NPT
ERH-0x-20	Level controller with connection according to the order
CODE1	Number of signaling points
/A/0/0	1 signaling point (value A to be given in mm)
/A/B/0	2 signaling points (values A and B to be given in mm)
/A/B/C	3 signaling points (values A, B and C to be given in mm)
CODE2	Electrical connection
-4	With IP68 choke and ATEX Ex d IIC feature
-5	Without choke (threaded hole M20x1.5)
CODE3	Version options
-K	Entirely acid-resistant (For Ex standard version)
-KP	Entirely acid-resistant with floating device protection
-KT	Entirely acid-resistant with Pt100 probe **
-KPT	Entirely acid-resistant with floating device protection and Pt100 probe **
CODE4	Special versions
/Ex	Explosion proof





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Rated data:

Parameter	Value		Unit
	230 (AC)	230 (DC)	
Rated voltage	230 (AC)	230 (DC)	V
Nominal contacts current load	1	0.5	A
For the version with a temperature sensor	PT100		-
Sensor resistance	100		Ω
Maximum PT100 measurement current	1		mA
Cable lead socket (EX d IIC)	M20x1.5		-
Protection class	IP68		
Ambient temperature	-25°C ≤ Tamb ≤ +80°C		

(16) Report:

- Number LL/260/2017/A of 19.06.2017

Magnetic level controller ERH-xx-20/x/x/x-x/Ex meets the requirements for devices with explosion proof design and may be used as a device of group II, category 2G.

(17) Special conditions for safe operation:

- The ambient temperature range in which device can work: $-20^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$
- The determined reference pressure is: 6.1 bar
- In order to protect cable leads against the possibility of removing them without using tools, the leads should be embedded in the body seat using an adhesive (e.g. LOCTITE® 620™).
- Product temperature class

Temperature class	Ambient temperature	Medium temperature
T6	-25°C ÷ +60°C	-25°C ÷ +85°C
T5	-25°C ÷ +65°C	-25°C ÷ +100°C
T4	-25°C ÷ +80°C	-25°C ÷ +135°C
T3	-25°C ÷ +80°C	-25°C ÷ +150°C

(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:

- Approval documentation Magnetic level controller ERH-XX-20 ER5-1800.03.2017.

