

Supplement No: 2

EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: IEP 14 ATEX 0223

(4) Product: AU 18 , AU 20 , AU 21 Type Level Devices

(5) Firm Name: HACI AYVAZ Endüstriyel Mamuller Sanayi ve Ticaret A.Ş.

(6) Firm Address: Atatürk O.S.B. Mustafa İnan Cad. No:44 34555 Hadımköy İstanbul -TURKEY

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-597-2 date 08.01.2020.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 60079-0:2013 , EN 60079-18:2015 , EN ISO 80079-36:2016

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:



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Responsible Person:

Nurettin Terzioğlu
Head of Certification Body

Supplement Date of Issue : 22.01.2020





(13) Schedule

(14) Certificate Nr: **IEP 14 ATEX 0223**

(15) Description of Equipment;

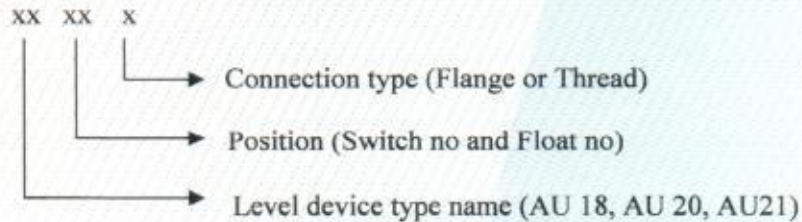
These equipments consist of mechanical and electrical parts. AU 18, AU 20 and AU 21 type level device power connection box has protection Ex d type. AU 18, AU 20 and AU 21 type level device works according to physical principles that are buoyancy force, pull and push force of electromagnetic. Magnets which are fixed to the float affect the switches and produce signal according to switches on/off positions. AU 18, AU 20 and AU 21 Level sensor device IP protection is IP 68. AU 18, AU 20 and AU 21 type magnetic level device is used for IIC gas group. Devices are assembly out of the tank. AU 18, AU 20 and AU 21 type magnetic level device is equipped with cable to use of external grounding cable 4 mm² (min) and HD 21.13.S1/HD.22.4.S4.

The parts and materials that are used in AU 18, AU 20 and AU 21 type level devices have been determined in the AU 18, AU 20 and AU 21 type level devices part list and date 08.10.2013. AU 18, AU 20 and AU 21 type level device has been evaluated as 0 and 1 that be used danger area determined in the EN 60079-10-1 standard.

Technical Data Sheet

Type	AU 18	AU 20	AU 21
Diameter (mm)	8	8	12
Working condition	Normal open	Normal open Change over	Change over
Switch no	1	1	1-2
Float no	1	1	1-2
Electrical sheets	1 A Max , 24 V DC / 220 V AC		
T _{ambient} (outside)	(-20 ~ + 50) °C		
T _{liquid}	(-10 ~ + 85) °C		

Product Code System



(16) Essential Health and Safety Requirements:

16.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

16.2 At the installation and the operation of the AU 18, AU 20 and AU 21 type level device has to be observed manufacturer's manual 5 pages dated 08.10.2013.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body





IEP ENERGY PETROLEUM INSTITUTE

(17) Certificate Nr: **IEP 14 ATEX 0223**

(18) Special conditions for safe use: The installation and the operation of the AU 18, AU 20 and AU 21 type level device has to confirm to the relevant national regulations.

(19) List of Documentation:

Drawing Nr;	Drawing Name;	Date;
AU 18 1/8 " YD	Level pipe	11.02.2009
AU 18	Level pipe	10.06.2008
AU 21 604.100.101.010	Float pipe	01.02.2011
AU 18 DK 604.100.101.020	Float pipe	10.06.2008
AU 18 YD 604.100.101.021	Float pipe	21.11.2008
AU 21 604.100.101.020	Float cap	01.02.2011
AU 18 DK 604.100.102.020	Float cap	10.06.2008
AU 18 DD 604.100.102.021	Float cap	10.06.2008
AU 18 604.100.103.008	Float magnet	10.06.2008
AU 21 604.100.103.010	Float magnet	01.02.2011
AU 21 604.100.301.010	Nut	01.02.2011
AU 18 604.100.301.020	Nut	10.06.2008
AU 21 604.100.401.010	Seal washer	02.02.2011
AU 21 604.100.501.010	Claw ring	02.02.2011
AU 21 604.100.601.010	Sealing screw	02.02.2011
AU 21 604.100.602.010	Screw	02.02.2011
AU 18 604.100.602.020	Screw	10.06.2008
AU 21 604.100.801.010	Clamp	02.02.2011
AU 18 604.100.801.020	Clamp	21.11.2008
AU 18-20-21 604.100.901.010	Stopper	19.03.2010
AU 18 1/8 " 604.100.901.015	Stopper	19.03.2010
AU 20 DD 704.950.000.100	Level device	19.03.2010
AU 20 DK 704.950.000.101	Level device	19.03.2010
AU 20 YD 704.950.000.102	Level device	19.03.2010
AU 20 YK 704.950.000.103	Level device	19.03.2010
AU 18 YD 704.950.000.150	Level device	21.11.2008
AU 18 YK 704.950.000.151	Level device	21.11.2008
AU 18 DK 704.950.000.152	Level device	09.06.2008
AU 18 DD 704.950.000.153	Level device	09.06.2008
AU 21	Level device (double float)	03.02.2011
AU 21	Level device (single float)	03.02.2011
AU 21	Rubber gasket	02.02.2011
AU 21	Level pipe	02.02.2011

For the validity of analysis type certificate, the parts that are used in AU 18, AU 20 and AU 21 type level device are confirmed in the part date 17.04.2019.

Certificate History;

Supplement N°	Supplement Date	Summary Description of Variation
02	22.01.2020	Gas Group Revision
01	17.05.2019	- Upgrade to ATEX directive 2014/34/EU - Conformity to standard EN 60079-0:2013, EN 60079-18:2015 - Update to new edition of EN ISO 80079-36:2016
00	28.05.2014	First issue of certificate

Responsible Person:

Nurettin Terzioğlu
Head of Certification Body

Supplement Date of Issue : 22.01.2020

