IEP | ENERGY PETROLEUM INSTITUTE

IEP ATEX

(1) # 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 21 ATEX 0872X**

(4) Product: **Magnetostrictive Level Probe Type ASIS V4 ExİaSTD - Mag Star**

(5) Firm Name: **ASİS Otomasyon ve Akaryakıt Sistemleri A.Ş.**

(6) Firm Address: **TatlısuMah. Akif İnan Sok. No:14 Ümraniye, 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.10-1800 date 19.01.2021.

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

EN IEC 60079-0:2018, EN 60079-11:2012

(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:

II 1G Ex ia IIA T4 Ga

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

ENERGY PETROLEUM INSTITUTE * INSPECTION AND CERTIFICATION * IEP ATEX NB 2284

Date of Issue : 26.01.2021

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(13) Schedule

(14) Certificate Nr: **EP 21 ATEX 0872X**

(15) Description of Equipment;

The probe ASIS V4 Exİa STD-Mag-Star is designed to produce output signals which indicate the level and temperature of a liquid in a tank. The probe comprises a magnetostrictive wire mounted concentrically in a stainless steel tube which is sealed at the bottom end. A number of temperature sensors are mounted at intervals inside the tube. An electronic circuit on a printed circuit board is mounted in an enclosure on the top of the probe.

External connections are made via a five-pin connector. The probe ASIS V4 Exİa STD-Mag-Star head are used in Zone 1 and the probe is Zone 0.

Technical data: The probe ASIS V4 STD-Mag-Star

Electrical parameters;

U_i=10 V; I_i=0,24 A; P_i=0,6 W; C_i=9 µF; L_i=0

Degree of protection : IP 68

Ambient temperature : Ta= - 30°C to + 70°C

Medium temperature : 100°C max.

(16) Special Conditions for Safe Use;

16.1 The equipment must be installed so, that during intended use, including maintenance and cleaning, or during malfunctions that can normally be expected, an ignition source due to electrostatic charging of the enclosure is excluded.

16.2 The meaning of (IEP 21 ATEX 0872X)X Means: The device must be to used with by ATEX certified Ex ia type barrier. To must be installed by authorized personnel according to the user manual EN 60079-14.Periodic inspection should be carried out by authorized personnel according to EN 60079-17.

16.3 External grounding should be connected with a suitable cable of 4 mm^2 min.

16.4 The probe head must be protected against impact or friction when installed in Zone 0 area.

16.5 When the probe is connected to the protection barrier without galvanic isolation or to the barrier the output circuits of which are earthed a potential equalizing wire must be installed between the probe and the earth-point of the barrier.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body

(17) Certificate Nr: **IEP 21 ATEX 0872X**

(18) Essential Health and Safety Requirements:

18.1 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.

18.2 At the installation and the operation of the electronic Magnetostrictive Level Probe Type ASIS V4 Exİa STD – Mag Star has to be observed manufacturer's manual 51 pages dated 24.09.2019.

(19) List of Documentation:

Magnetostrictive level probe, Technical Specification (6 pages)	2010
Stainless steel pipe, technical document (5 pages)	2010
Installation manual (51 pages)	2019
ASIS Probe V4 STD-Mag-Star, product specification (5 pages)	2010
Safety assessment (7 pages)	2010
Technical documentation:	
Component list, Rev. 01 (4 pages)	20.08.2010
ASIS Probe V4 STD-Power Supply& Input Protection	01.06.2010
ASIS Probe V4 STD-24 Charge Pump	01.06.2010
ASIS Probe V4 STD-CPU	01.06.2010
ASIS Probe V4 STD-Amplifer	01.06.2010
ASIS Probe V4 Block Diagram	13.04.2010
Drawing of Label	2020
PCB Pictures:	
Top layer	05.07.2010
Bottom layer	05.07.2010
Top overlay	05.07.2010
Data sheets of the Electronic components (11 pages)	05.07.2010

For the validity of the analysis type certificate, the parts that are used in the level probe are confirmed in the component list.

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