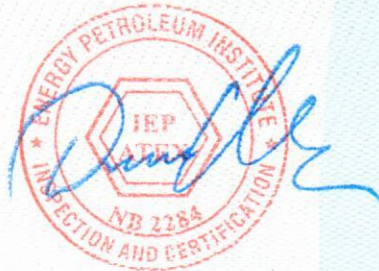


(1)

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 20 ATEX 0751X****(4) Product: Mining Intrinsic-Safety Telephone, Type ERAKTH 108****(5) Firm Name: ERA Group Havalandırma Ekipmanları ve Dış Ticaret A.Ş.****(6) Firm Address: Horozluhan Mah. Çaldüzü Sok. No:3 Selçuklu / KONYA****(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.10-1660 date 12.03.2020.****(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;****EN 60079-0 : 2013 , 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:****I M1 Ex ia I Ma , IP 54****Responsible Person :**Nurettin Terzioglu
Head of Certification Body**Date of Issue : 13.03.2020**



IEP ENERGY PETROLEUM INSTITUTE

(13) Schedule

(14) Certificate Nr: **IEP 20 ATEX 0751X**

(15) Description of Equipment;

ERAKTH108 is an intrinsically safe phone. The power of the phone is supplied by the ERAKTA104 barrier, which is used together with the phone. ERAKTA104 Intrinsically safe barrier provides the use of the phone in explosive (methane) environments. Zener barrier is designed to be used in a hazardous area. If it is to be used in a mine, it should be used with a housing with type I protection.

Technical Parameters:

Type	ERAKTH 108
Operating Voltage	60 VDC / 60 VAC
Operating Current	DC 35 mA / AC 35 mA
Max. External Capacitance	0,1 μ F
Max. External Inductance	1 μ H
IP Protection Class	IP 54
Ambient Temperature	- 10 ~ +40 °C

(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 mining intrinsic-safety telephone has to be observed manufacturer's manual 7 pages dated 02.01.2020.

(17) List of Documentation:

- ♦ User manual : 7 pages, dated 02.01.2020
- ♦ Equipment list : 1 page 02.01.2020
- ♦ Add. Test Report;
- 2015-0332 / KTH 108
- SHBST2013122617YER-1 / EMC Test Report

(18) Drawings:

Drawing Name;	Drawing Nr;	Date;
Technical File	16.TD.12	02.01.2020
User Manual	KTH 108	02.01.2020
PCB Board Back Technical Drawing	8KY.064 028	02.01.2020
PCB Board Material Layout Surface Technical Drawing	5KY.064 009	02.01.2020
General Dimensions Drawing	3KY .11.032	02.01.2020

For the validity of analysis type certificate, the parts that are used in mining intrinsic-safety telephone is confirmed in the equipment list date 02.01.2020. If unauthorized parts and equipment are used in the ATEX certified telephone, the certificate is invalid.

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 13.03.2020

