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# Learn more about ATEX and intrinsically safety.

Extreme care must be taken whenever working in oil and gas production. Flammable gases and air may constitute explosive mixtures that can be ignited by sparks or high temperatures. Instruments that are used where flammable petroleum gases or volatile liquids are produced, must be intrinsically safe and explosion proof to prevent fatal incidents.

International standards are in place to assure this life threatening danger remains contained and does not come to effect. ATEX (ATmosphères EXplosibles) is the most common directive applicable to instrumentation used in areas exposed to explosive hazards.

ATEX compliance is monitored by notified bodies such as the TUV. A notified body is an inspection organization that has been audited by an approved and designated national body to approve its competency in relation to a European standard such as ATEX. A notified body is universally acceptable throughout the EU.

Sonoecho<sup>™</sup> fluid level recorders and dynamometers are ATEX certified. If the operator wants to know whether a product is ATEX compliant he should ask the supplier for two certificates.

- 1. EU-Type-Examination Certificate
- 2. ATEX Production Quality Assurance Notification

While the EC-Type-Examination Certificate guarantees that the design of the instrument is in compliance with ATEX regulations, the Production Quality Assurance Notification guarantees that each and every instrument is manufactured according to the ATEX approved design.

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#### **Example documents**

[1]				Translation		/	
[1]	EU-ITPE EXAMINATION CERTIFICATE -		(1)	Production Qu	uality Assurance	TA/NOD	
[2]	Equipment or protective systems intended for use in potentially explosive atmospheres, Directiv	e 2014/34/EU	(1)	Notification		IUVNUK	
[3]	EU-type examination certificate number IBExU16ATEX11	35   Issue 1	(2)	Equipment and protectiv	e systems		
[4]	Product: WIRELESS BT-BOX			explosive atmospheres,	Directive 2014/34/EU	(2X)	
[5]	Manufacturer: Sonoecho GmbH & Co. KG		(2)	Notification Number	TÜV 19 ATEX 258339 Q		
[6]	Address: Schillerstr. 14		(3)	Notification Hambor			
	21365 Adendorf Germany		(4)	Product category:	P	rotective principle:	
[7]	This product and any acceptable variation thereto is specified documents therein referred to.	in the schedule to this certificate and the		oil, gas industry and the	geothermal energy		
[8]	IBExU Institut für Sicherheitstechnik GmbH, Notified Body nur	mber 0637 in accordance with Article 17	(7)		Oreansha Carble & Car KC		
	of Directive 2014/34/EU of the European Parliament and of certifies that this product has been found to comply with the	the Council, dated 26 February 2014, essential health and safety requirements	(5)	Applicant:	Schillerstrasse 14, 21365 Ac	lendorf, Germany	
	relating to the design and construction of products inte atmospheres given in Annex II to the Directive.	nded for use in potentially explosive	(6)	Manufacturer:	see applicant		
	The examination and test results are recorded in the confident	ial test report IB-19-3-0106.		Manufacturing location:	Friedrich Leutert GmbH & Co Schillerstrasse 14, 21365 Ac	o KG, lendorf, Germany	
[9]	Compliance with the essential health and safety requirements EN IEC 60079-0:2018, EN 60079-11:2012	has been assured by compliance with:		Order number:	8003013000		
	except in respect of those requirements listed at item [18] of the	e schedule.		Date of issue:	2019-11-25		
[10]	If the sign "X" is placed after the certificate number, it india	ates that the product is subject to the		First certification:	2019-11-25		
	specific conditions of use specified in the schedule to this ceru	icate.		Valid to:	2022-11-24		
[12] IBEx Fuch 0959	product. Further requirements on the Directive apply to the interformationing process and supply on this product. These are not covered by this certificate. 12] The marking of the product shall include the following:			<ul> <li>2014/24/EU of the European Parliament and the Council of 26 February 2014, notifies the appet that the manufacturer has a production quality system which comples with Annex IV of the Direct</li> <li>(8) This notification is based on audit report No. 19 202 258339 issued 2019-11-23. This notificatio be withdrawn if the manufacturer no longer salisfies to the requirements of Annex IV. Response of the Direct to the product of quality reasessments are a part of this notification, shall be followed identification number 0044 of the notified body TUV NORD CERT GmbH.</li> <li>(9) In accordance with Article 16 (3) of the Directive 2014/34/EU the CE marking shall be followed identification number 0044 of the notified body TUV NORD CERT GmbH.</li> <li>The EC-Type Examination Certificates based on this notification are listed by the contine for safet engineering (25), lent. Nr. 044, leagi successor of the TUV NORD CERT GmbH. &amp; Co K3 lent. Nr. 0032</li> </ul>			
By o	inder	are not valid. Certificates may only be displicated completely and unchanged in case of dispute, the German text shall prevail.		The head of the notified	body		
pl	(Notified Bodychumber 0637)	Freiberg, 2019-08-29		Roder. Mol	J		
	*Kenn-W.			Hanover office Am TÜV/1 20	- 1519 Hanover Tel +49 511 998-614F	55 Fax +49 511 998-61590	
		(U		Hanover once, Am 10V 1, 30	018 Mallovel, 181, 149 011 000-0140	0,1 ax 140 511 500 01000	
		Page 1/3		Ex	This notification may only be reproduced v corpts or changes shall be allowed by the T	vithout any change. ÚV NORD CERT GmbH	
FB105	5100 1	IBExU16ATEX1165   1		P17-F-401 Rev. 01/04.16			

Example of EU-Type Examination Certificate

Example of Production Quality Assurance Notification

### ATEX certified sonoecho<sup>™</sup> fluid level recorder and dynamometer



sonoecho™ Liquid Level Gun 3000 PSI



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The certificates must cover all components of a dynamometer, this includes wireless transmitters and pressure sensors. No certificates, no ATEX. Furthermore maintenance, repair and/or reconditioning must be performed by sonoecho<sup>™</sup> trained personnel only otherwise the ATEX certification becomes invalid.

In case you want to check whether the dynamometer or sonoecho is going to be used in an explosive area, you should consult local or international recommendations for classification of areas exposed to explosive hazards, e.g. the German BVEG publishes recommendations for classifying areas exposed to explosive hazards. The API-RP500 classifies hazardous zones for a rod pumped well. Equivalent standards exist throughout the world.



BVEG Recommendations for establishing areas exposed to explosive hazards.

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Classification of hazardous zones for a rod pumped well according to API-RP500