



(1) **EC TYPE-EXAMINATION CERTIFICATE**
(TRANSLATION)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres –
Directive 94/9/EC

(3) EC type-examination certificate number:

SIQ 11 ATEX 134 X



(4) Equipment: Measuring instrument, type LEGATEST

(5) Manufacturer: L-plan d.o.o.

(6) Address: Breznica 1, SI-4274 Žirovnica

(7) This equipment and any acceptable variations thereto are specified in the schedule to this certificate and in the documents listed in the confidential test report TEx134.2/11.

(8) SIQ Ljubljana, Notified body number 1304 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and 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 test report TEx134.2/11.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with the following standards:

EN 60079-0 : 2009

EN 60079-1 : 2007

EN 60079-11 : 2007

EN 60079-25 : 2004

EN 13463-1 : 2009

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC type-examination certificate relates only to the design, examination and tests of the specified equipment in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

II 2 G Ex d [ib] ib IIC T4 Gb

Certification body

Ljubljana, 28 December 2011

Igor Likar



(13)

SCHEDULE

(14)

EC TYPE-EXAMINATION CERTIFICATE SIQ 11 ATEX 134 X

(15) Description of the equipment

Measuring instrument, type LEGATEST, is designed in the types of explosion protection flameproof enclosure "d" and intrinsic safety "ib". It is intended for testing of safety valves on systems during operation in industry. When testing safety valve, instrument acts with defined force on the safety valve. During testing instrument measures stretching force, pressure in system, displacement of safety valve's spindle and acoustic signal. The acquired data are analysed by computer connected to instrument via a safety barrier.

The main part of measuring instrument is flameproof enclosure with connectors, which can be connected to sensors, computer and battery charger. Circuits, that lead out from flameproof enclosure, are intrinsically safe with level of protection "ib".

Power supply of measuring instrument is provided with ten NiMH batteries which are placed in flameproof enclosure. Batteries are charged in non-hazardous area by manufacturer's dedicated battery charger.

Connectors can be connected to:

- Force sensor, connector "FORCE"

Manufacturer:	AEP transducers s.r.l
Type / Model:	TS 10kN
Type of protection:	II 2G Ex ib IIC T6
Certificate No.:	TÜV 06 ATEX 553026 X

- Pressure sensor, connector "PRESSURE"

Manufacturer:	WIKA Alexander Wiegand GmbH & Co. KG
Type / Model:	E - 10
Type of protection:	II 2G Ex d IIC T6
Certificate No.:	KEMA 05ATEX2240 X

- Displacement sensor, connector "LIFT"

Manufacturer:	burster praezisionsmesstechnik gmbh & co kg
Type / Model:	8713 - 25
Type of protection:	simple apparatus
Certificate No.:	/

- Acoustic sensor, connector "ACOUSTIC"

Manufacturer:	Pulsar Process Measurement Ltd
Type / Model:	2011Z
Type of protection:	EEx ia I/IIC T5
Certificate No.:	Sira 04ATEX2121X



- Safety barrier for connection to computer, connector "RS232"

Manufacturer:	R. STAHL Schaltgeräte GmbH
Type / Model:	9002/22-240-160-001
Type of protection:	II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
Certificate No.:	PTB 01 ATEX 2053 X

- Battery charger

Manufacturer:	L-plan d.o.o.
Type / Model:	SAW 24-18.0-yyyyM with safety barrier

Technical data:

Measuring instrument, type LEGATEST:

Supply:	10 x NiMH battery, model No.: GP400LAHT
Rated voltage:	12 V
Rated battery capacity:	4200 mAh

Battery charger:

Supply:	AC, 253 V
Maximum charging voltage:	DC, $U_0 = 21$ V
Maximum charging current:	DC, $I_0 = 1.36$ A

Ambient temperature:

from -20°C to +60°C

(16) Test report

- TEx134.2/11 dated 28 December 2011.

(17) Special conditions for safe use

- Charging of the batteries is not permitted in hazardous area. Only original battery charger stated in item (15) can be used.
- Computer can be connected to measuring instrument only via safety barrier stated in item (15).
- Only sensors stated in item (15) can be used.
- Repairing can be done only by the manufacturer or authorized service provider.
- Opening of flameproof enclosure in hazardous area is not permitted.

(18) Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements has been assured by compliance with the requirements of the standards listed under item (9).