

CERTIFICATE

(1) EU-Type Examination

- (2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0052 X** Issue Number: **2**

(4) Product: **Automatic Level Gauge, type SmartServo FlexLine 954**

(5) Manufacturer: **Enraf B.V.**

(6) Address: **Delftechpark 39, 2628 XJ Delft, The Netherlands**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the 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 test report number NL/DEK/ExTR18.0022/02.

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

EN IEC 60079-0 : 2018
EN 60079-11 : 2012
EN ISO 80079-37 : 2016

EN 60079-1 : 2014
EN 60079-26 : 2015

EN 60079-7 : 2015 + A1 : 2018
EN ISO 80079-36 : 2016

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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. 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 product shall include the following:



II 1/2 G Ex db h IIB T6 Ga/Gb or Ex db h IIC T6 Ga/Gb or
II 1/2 G Ex db eb h IIB T6 Ga/Gb or Ex db eb h IIC T6 Ga/Gb or
II 1/2 G Ex db h [ia Ga] IIB T6 Ga/Gb or Ex db h [ia Ga] IIC T6 Ga/Gb or
II 1/2 G Ex db eb h [ia Ga] IIB T6 Ga/Gb or Ex db eb h [ia Ga] IIC T6 Ga/Gb

Date of certification: 15 September 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0052 X**

Issue No. 2

(15) **Description**

The Automatic Level Gauge (ALG), type SmartServo FlexLine 954 is intended to measure the fluid level in storage tanks. The gauge is mounted on top of the tank. Measurement is obtained via a displacer that is suspended from a drum by a stainless steel wire.

The gauge consists of a control housing in type of protection flameproof enclosure "d", a terminal box in type of protection increased safety "d" or "e" and a measuring drum compartment in type of protection constructional safety "c".

The control housing and the terminal box have equipment protection level (EPL) Gb, the drum compartment has EPL Ga.

The enclosure provides a degree of protection of IP65 according to EN IEC 60079-0 and EN 60529.

Ambient temperature range -40 °C to +65 °C.

The gauge may be provided with one or more option boards listed below, providing I/O signals in type of protection intrinsic safety "ia".

Electrical data

Power supply (grey terminals 00 and 01):

$U_n = 65 - 240 \text{ Vac}, 50/60 \text{ Hz}, \leq 11 \text{ W}$, or

$U_n = 24 - 65 \text{ Vdc}, \leq 11 \text{ W}$

$U_m = 250 \text{ Vac} / \text{Vdc}$

Non-intrinsically safe circuits (grey terminals):

$U_m = 250 \text{ Vac} / \text{Vdc}$

HART or HART SmartView interface circuit (blue terminals 22, 23 or 24, 25 or display connector):
in type of protection intrinsic safety Ex ia IIB/IIC, with the following maximum values:

$U_o = 23,1 \text{ V}$; $I_o = 124 \text{ mA}$; $P_o = 0,6 \text{ W}$; $C_o = 1 \mu\text{F}$ (IIB), $0,12 \mu\text{F}$ (IIC); $L_o = 9 \text{ mH}$ (IIB), $2,3 \text{ mH}$ (IIC)

RTD interface circuit (blue terminals in the range of 30 to 45):

in type of protection intrinsic safety Ex ia IIB/IIC, with the following maximum values:

$U_o = 8,61 \text{ V}$; $I_o = 58 \text{ mA}$; $P_o = 0,13 \text{ W}$; $C_o = 1 \mu\text{F}$; $L_o = 10,5 \text{ mH}$

The intrinsically safe circuits are infallibly galvanically isolated from the non-intrinsically safe circuits up to a sum of peak voltages of 375 V.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR18.0022/02.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0052 X**

Issue No. **2**

(17) **Specific conditions of use**

For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR18.0022/02.

(20) **Certificate history**

Issue 0 -	222779900	Initial certificate.
Issue 1 -	224825600	Minor technical changes, Assessment against the latest edition of EN IEC 60079-0.
Issue 2 -	226260800	The equipment is assessed for gasgroup IIC