



(1) **EU-Type Examination Certificate**

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

(3) Certificate number: **SEV 11 ATEX 0145 X**

(4) Product: Pressure transmitter
Type: 8852.xx, 8853.xx, 8858.xx

(5) Manufacturer: Trafag AG

(6) Address: Industriestrasse 11, 8608 Bubikon, SWITZERLAND

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

(8) Eurofins, notified body No. 1258, 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 report no 18-Ex-0075.43 E2

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 50303:00

EN 60079-0:12 + A11:13

EN 60079-11:12

EN 60079-26:15

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 subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this 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:



see Appendix page 3, (20) Marking

Eurofins Electrosuisse Product Testing AG
Notified Body ATEX



Jürg Rellstab

Product Certification

(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 11 ATEX 0145 X

(15) **Description of product**

The sensor series 8852.xx, 8853.xx and 8858 with metallic enclosure and cable connection or metallic enclosure with metallic connector are pressure sensors for gasses or liquids designed according to requirements EPL "Ga" or EPL "Da".

Ratings:

$U_i = 30 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 1.0 \text{ W}$

$C_i = 10 \text{ nF} + CK = 0.12 \text{ nF/m}$; $L_i = 0.1 \text{ mH} + LK = 0.001 \text{ mH/m}$

The temperature class depends on ambient-temperature and medium-temperature on the sensor. This relations are shown in the following tables:

Type	Temperature class	T6	T4	T3
8852	Ambient temperature [°C]	55	85	85
8853	Medium temperature [°C]	55	100	150

Type	Temperature class	T6	T4
8858	Ambient temperature [°C]	50	80
	Medium temperature [°C]	50	80

The relationship between the max. ambient temperature and surface temperature for dust environment is shown in the following table:

Type	Surface temperature [°C]	125
8852	Ambient temperature [°C]	85
8853		
8858		

See also operating- and safety- instructions 10.88.0439.A from Trafag AG with plug connection are delivered without the cable and the connector's counterpart. The end user must install correct connector type and cable for the appliance and must check that no additional ignition risks occur with these parts.

Description of type variation

Type	Metallic enclosure		Non metallic enclosure	Metallic connector housing	Non-metallic connector housing	Cable connection
	stainless steel (SST)	titanium (Ti)				
8852	x	x	---	x	x	x
8853	x	x	---	x	x	x
8858	x	x	---	x	x	x

x = variation of deliver

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(17) **Specific conditions of use**

- Protect pressure transmitters with titanium housing against impact and friction.
 - The metallic enclosure must be earthed.
 - The devices must be protected against UV-light (for example daylight or light from luminaires).
- This applies to all types with a non-metallic connector enclosure and for all non-metallic housings.

Types with metal housing and cable connection or metal housing with metal plug do not need this protection against UV light.

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:


Clause	Subject
None	

(19) **Drawings and Documents**


See test report "Manufacturer's Documents"

(20) **Marking**

Types with metallic enclosure and cable connection or metallic enclosure with metallic connector for zone 0, 20, M1

	II 1 G	Ex ia IIC	T3 ... T6 Ga
	II 1 D	Ex ia IIIC	T125 °C Da
	I M1	Ex ia I Ma	

Types with metallic enclosure and non-metallic connector for zone 1, 2, 20, 21, 22, M2

	II 2 G	Ex ia IIB	T3 ... T6 Gb
	II 1 D	Ex ia IIIC	T125 °C Da
	I M2	Ex ia I Mb	