

EC-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: Presafe 14 ATEX 4124 Issue 1
- [4] Equipment or Protective System: Junction boxes
- [5] Applicant – Manufacturer or Authorized representative: Tranberg AS
- [6] Address: Strandsvingen 6
4032 Stavanger
NORWAY
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012, EN 60079-1:2007 and EN 60079-7:2007 EN 60079-18:2009
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system 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 and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:

	II 2 G	Ex d e IIC Gb	T class, see [15]
	II 2 G	Ex eb IIC	T class, see [15]
	II 2 G	Ex e mb IIC Gb	T class, see [15]

Bjørn Spongsveen
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2016-04-11

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[13]

Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No.: Presafe 14 ATEX 4124 Issue 1

[15] Description of Equipment or Protective System

Increased safety boxes equipped with different equipment. This includes terminal blocks, signal lamps, push button, control switches, thermostats, bus bars, isolators, baffles and A-bricks.

Type Identification

TEF 10aa bb c d	aa	58 or 59
	bb	Dimmension: 00 = Customer spesific 1 to 99 = Predefined dim.
	c	Surface treatment: 0 = Bright chemical dip 1 = Electro polished 2 to 9 Not defined
	d	Configuration 0 = Empty enclosure 1 = With horisontal terminal rail PE bar 2 to 9 Not defined.
TEF 1060 a b c	a	Enclosure configuration 0 = Hinged with window 2 = Hinged 1, 3 to 9 Not defined
	b	Lid configuration 0 = Hinged lid with screw electro polished 1 = Hinged lid with cam lock 2 to 9. Not defined
	c	Dimension 0 = Empty enclosure 1 = With horisontal terminal rail and PE bar. 2 to 9. Not defined
TEF 1058256x, TEF 1058258x		

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Operating temperature - T_{amb}

Two different types of gaskets may be used on the box lid:

- EPDM gasket type (temp. range -20°C to + 60°C)
- Silicone gasket type (temp. range -50°C to +100°C)

The operating temperature range / T_{amb} for the total enclosure, box included optional components are calculated by documented method (100A10247), with maximum operating temperature -50°C to +100°C, depended if silicone gasket is used. EPDM gives respectively -20°C to +60°C.

Temperature class

T4, T5 or T6
(dependent on internal components and T_{amb})

Electrical Data

Voltage: max 11000V
Amperes: max 2100A(see table below)

For bus-bar systems, the cable maximum rating is according to IEC TR 60890

Current rating for terminals, not copper bus bar solutions

Terminal size / Crossection	Load	Terminal size / Crossection	Load
1,5mm ² AWG16	10A	50mm ² AWG1/0	135A
2,5mm ² AWG14	16A	70mm ² AWG2/0	165A
4mm ² AWG12	20A	95mm ² AWG4/0	210A
6mm ² AWG10	25A	120mm ² AWG250	230A
10mm ² AWG8	35A	150mm ² AWG300	250A
16mm ² AWG6	63A	185mm ² AWG400	300A
25mm ² AWG4	80A	240mm ² AWG500	350A
35mm ² AWG1	100A	300mm ² AWG600	450A

Degrees of protection (IP Code)

IP66 or IP66/67
IP54, with some optional components.

Routine Test

A dielectric strength test according to Clause 7.1 of EN 60079-7 shall be carried out on equipment.

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[17] Special Conditions for Safe Use

None

[18] Essential Health and Safety Requirements

See part 9 of this certificate

[19] Descriptive Documents

Number	Title	Rev.	Date	Sheets
TCL4280	Master document	E	2016-04-06	1
TCL5306	Master document	-	2016-04-06	1

[20] Certificate History

Issue	Description	Report no.	Issue date
0	Original issue	D0001170	2014-05-14
1	Addition of bus bar and high voltage equipment	D0001170 rev1	2016-04-11

END OF CERTIFICATE