

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 18 ATEX 8217 U

Issue: 02

- (4) Equipment: **Ex d enclosure series T07**
- (5) Manufacturer: **SAMCON Prozessleittechnik GmbH**
- (6) Address: **Schillerstraße 17,
D-35102 Lohra-Altenvers**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report 557/Ex8217.02/18
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

- (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 EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:

II 2G Ex db IIC Gb

I M2 Ex db I Mb

II 2D Ex tb IIIC Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2021-11-11

Dipl.-Ing. Christian Mehrhoff



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This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. +49 (0) 221 806 114



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Precisely Right.

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 18 ATEX 8217 U Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Ex d Enclosure Series T07

15.2 Description

General product information:

The T07 stainless steel enclosure is available in different sizes. The characteristic design is always identical. Two side flanges cover a central body. Usually, but not necessarily, one side-flange is used as an optical adapter and the second flange as cable entry. This allows the introduction of one, or several, explosion-proof cable glands and/or compatible sealing plugs. The design allows different and free combinations of bodies and flanges. The enclosures are suitable for Group I with a low risk of mechanical hazard and zone 1, 2 as well as 21 and 22 including the explosion groups IIC/IIIC with a high risk of mechanical hazard.

Regarding the electrical input, neither limits nor mandatory values have been determined. Surface temperatures or temperatures inside the enclosure which may be caused by thermal dissipation, have to be evaluated in the course of the equipment approval process.

Ex marking:

The housing combination T07-VA2.x.x.BOR5 must not be used in mining (ATEX group 1) or in areas with high mechanical hazards (ATEX group 2)! Observe ex-marking on the type plate!

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Technical Data:

All VA1 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA1.x.K1.K1	IP68	-60°C	+160°C
T07-VA1.x.K1.BOR	IP68	-60°C	+160°C

All VA2 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA2.x.K3.K3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR5	IP68	-60°C	+160°C

All VA2 bodies shorter/equal to VA2.2.R:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA2.x.K1.K1	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K1.BOR5	IP68	-60°C	+160°C

T07-VA2.x.K2.K2	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K2.BOR5	IP68	-60°C	+160°C

T07-VA2.x.K3.K3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR2	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR3	IP68	-60°C	+160°C
T07-VA2.x.K3.BOR5	IP68	-60°C	+160°C

All VA4 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA4.x.K1.K1	IP68	-60°C	+160°C
T07-VA4.x.K1.BOR1	IP68	-60°C	+160°C
T07-VA4.x.K1.BOR2	IP68	-60°C	+160°C

(16) Test-Report No. 557/Ex8217.00/18

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(17) Schedule of Limitations



1. No holes, whether blind or clear, may be drilled in the Ex component enclosure other than already provided by the manufacturer.
2. The content of the Ex component enclosure may be placed in any arrangement, providing that an area of at least 40% (for IIB 20%) of each cross-sectional area remains free to permit unimpeded gas flow and unrestricted development of an explosion.
3. Oil-filled circuit breakers and contactors shall not be used.
4. When evaluating the component enclosure as equipment, the requirements of EN/IEC 60079-1 must be applied.
5. For Group I, and T07-VA2.x.x.BOR5 models, the enclosure is only suitable with a low risk of mechanical hazard.
6. All used cable glands and plugs have to be certified.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2018-10-30


Dipl.-Ing. Klauspeter Graff


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(13) Annex

(14) **EU Type Examination Certificate**
TÜV 18 ATEX 8217 U Issue: 01

(15) Description of equipment

15.1 Equipment and type:

Ex d Enclosure Series T07

15.2 Description / Details of Change

General product information:

See Certificate and Issue 00

T07-VA2.x.x.BOR5 models can be used in mining environments (Group 1) with a low risk of mechanical hazard and $T_{amb} \geq -30^{\circ}\text{C}$

The housing combinations T07-VA0.x.K1.GER and T07-VA4.x.PS1 may not be used in mining (ATEX group 1) or in areas with high mechanical hazards (ATEX group 2)

Ex marking:

See Certificate and Issue 00

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Technical Data:

All VA0 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA0.x.K1.BOR	IP68	-60°C	+135°C
T07-VA0.x.K1.GER	IP68	-30°C	+135°C

All VA2 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA2.x.x.BOR5 (Mining 4J)	IP68	-30°C	+135°C

All VA4 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA4.x.PS1	IP68	-50°C	+135°C

(16) Test-Report No. 557/Ex8217.01/18

(17) Special Conditions for safe use

1-5: See Issue 00

6. T07-VA2.x.x.BOR5 models can be used in mining environments (Group 1) with a low risk of mechanical hazard and T_{amb} >= -30°C
7. The housing combinations T07-VA0.x.K1.GER and T07-VA4.x.PS1 may not be used in mining (ATEX group 1) or in areas with high mechanical hazards (ATEX group 2)

(18) Basic Safety and Health Requirements

Covered by aforementioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-06-10

Dipl.-Ing. Klaus Peter Graffi



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(13) Annex

(14) **EU Type Examination Certificate**
TÜV 18 ATEX 8217 U Issue: 02

(15) Description of equipment

15.1 Equipment and type:

Ex d Enclosure Series T07

15.2 Description / Details of Change

General product information:

See Certificate and Issue 00 and 01

Additional enclosure T07-VA0.4.K1.GER included into the certificate. See table in technical data. The housing may not be used in mining (ATEX group 1) or in areas with high mechanical hazards (ATEX group 2).

Ex marking:

See Certificate and Issue 00

Technical Data:

All VA0 bodies:

Model Key	Protection level	T _{Amb min}	T _{Amb max}
T07-VA0.x.K1.GER	IP68	-20°C	+135°C

(16) Test-Report No. 557/Ex8217.02/18

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- (17) Special Conditions for safe use
unchanged
- (18) Basic Safety and Health Requirements
Covered by aforementioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2021-11-11

Dipl.-Ing. Christian Mehrhoff



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