Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) EU-TYPE EXAMINATION CERTIFICATE

(Translation)

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 12 ATEX 2009 X **Issue: 1**

(4) Product: Excom Power Supply Modul type PSM24-3G.1

(5) Manufacturer: Hans Turck GmbH & Co.KG

(6) Address: Witzlebenstraße 7, 45472 Mülheim an der Ruhr, Deutschland

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 the confidential Test Report PTB Ex 20-20121.

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

EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018,
EN 60079-11:2012, EN IEC 60079-15:2018

(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 in accordance to the Directive 2014/34/EU. 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:

Ex II 3 (2) G Ex ec nC ic [ib Gb] IIC T4 Gc

ZSEx001e c

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, June 1, 2021
On behalf of PTB:

Dr.-Ing. F. Lienesch
Direktor und Professor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 24

(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 12 ATEX 2009 X, Issue: 1**

(15) Description of Product

The power supply module, type PSM24-3G.1 is a component part of the explosion protected Remote I/O-fieldbus system "Excom" and it is intended for the application in hazardous areas of category 3.

The equipment is exclusively operated in combination with the module subrack of type MT16-3G... or type MT24-3G... certified by the 3rd supplement to EC-type examination certificate PTB 00 ATEX 2194 U for the application in areas of category 3.

The power supply module is designed to types of protection Ex ic IIC and Ex ec IIC . As a central unit it supplies the Excom fieldbus system with defined power. Up to two Gateways and 24 separately certified Excom moduls may be connected.

With this combination the intrinsically safe field circuits of the respective Excom modules may be led into hazardous areas of category 1.

Inside the area of zone 2 the power supply module – as all other modules of the Excom fieldbus system – may be plugged or unplugged during operation.

The permissible range of the ambient temperature is -40 °C up to 70 °C.

Electrical data

Voltage supply ..... (plug connector J1 pins 1...4 L+,11...14 L-)	type of protection Ex ec IIC U_B = 19,2 ... 32 V DC U_m = 40 V
PA ..... (plug connector J1 pins 21...24)	EMV-relevance, no protective function
System-internal output voltage..... (plug connector J2 pins 1...4, 7...10)	type of protection Ex nAc II Operational maximum values: U = 40 VAC_{ss} f = 314 kHz P ≤ 60 W

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 12 ATEX 2009 X, Issue: 1

External Clock ..... (plug connector J2 pins 13, 14)	type of protection Intrinsic Safety Ex ic IIC system-internal circuit without external connection facilities
Fault signal ..... (plug connector J2 pins 15, 16)	type of protection Intrinsic Safety Ex ib IIC system-internal circuit without external connection facilities

(16) Test Report PTB Ex 20-20121

(17) Specific conditions of use

The equipment must only be installed in an environment with a maximum pollution degree of 2.

When used in zone 2:

1) the equipment must be mounted in a separately approved housing according to EN IEC 60079-0 with a degree of protection of at least IP54 according to EN 60529.

2) with its housing must be installed and operated in areas with pollution degree 2 as defined in EN 60664-1.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, June 1, 2021

Dr.-Ing. F. Lienesch
Direktor und Professor

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(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:

PTB 12 ATEX 2009

(4) Equipment: Power supply module, type PSM24-3G...

(5) Manufacturer: Hans Turck GmbH & Co. KG

(6) Address: Witzlebenstraße 7, 45472 Mülheim an der Ruhr, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 PTB Ex 12-21062.

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

EN 60079-0:2009 **EN 60079-11:2012** **EN 60079-15:2010**

(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 to 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 3 (2) G Ex nA ic [ib Gb] IIC T4 Gc alternatively
II 3 (2) G Ex nAc ic [ib] IIC T4

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, October 5, 2012

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

ZSEx10100e.dotm

(13) # SCHEDULE

(14) ## EC-TYPE-EXAMINATION CERTIFICATE PTB 12 ATEX 2009

(15) Description of equipment

The power supply module, type PSM24-3G... is a component part of the explosion protected Remote I/O-fieldbus system "Excom" and it is intended for the application in hazardous areas of category 3.

The equipment is exclusively operated in combination with the module subrack of type MT16-3G... or type MT24-3G... certified by the 3rd supplement to EC-type examination certificate PTB 00 ATEX 2194 U for the application in areas of category 3.

The power supply module, type PSM24-3G... is designed to types of protection Ex ib IIC and Ex nAc II . As a central unit it supplies the Excom fieldbus system with defined power. Up to two Gateways and 24 separately certified Excom moduls may be connected.

With this combination the intrinsically safe field circuits of the respective Excom modules may be led into hazardous areas of category 1.

Inside the area of zone 2 the power supply module – as all other modules of the Excom fieldbus system – may be plugged or unplugged during operation.

The permissible range of the ambient temperature is -20 °C up to 70 °C.

Electrical data

Voltage supply ..... type of protection Ex nAc II
(plug connector J1
pins 1...4 L+,11...14 L-)

U_B = 19,2 ... 32 V DC
U_m = 40 V

PA ..... EMV-relevance, no protective function
(plug connector J1
pins 21...24)

System-internal output voltage ..... type of protection Ex nAc II
(plug connector J2
pins 1...4, 7...10)

Operational maximum values:

U = 40 V AC
f = 307 kHz
P ≤ 65 W

External Clock (plug connector J2 pins 13, 14)	type of protection Intrinsic Safety Ex ic IIC system-internal circuit without external connection facilities
Fault signal (plug connector J2 pins 15, 16)	type of protection Intrinsic Safety Ex ib IIC system-internal circuit without external connection facilities

(16) Test report PTB Ex 12-21062

(17) Special conditions for safe use

none

(18) Essential health and safety requirements

met by compliance with the standards above

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

Braunschweig, October 5, 2012

Konformitätserklärung Nr. 4122M

Declaration of Conformity

TURCK
Industrielle Automation

Diese Konformitätserklärung entspricht der Europäischen Norm EN ISO/IEC 17050-1:2010 "Allgemeine Kriterien für Konformitätserklärungen von Anbietern".

This "Declaration of Conformity" complies with the European Standard EN ISO/IEC 17050-1:2010 "General criteria for a supplier's declaration of conformity".

Wir/ We HANS TURCK GMBH & CO KG
WITZLEBENSTR. 7, D – 45472 MÜLHEIM A.D. RUHR

erklären in alleiniger Verantwortung, dass die Produkte
declare under our sole responsibility that the products

Remote – I/O – Feldbussystem excom® Netzteil PSM24-3G

auf die sich die Erklärung bezieht, mit den folgenden Normen übereinstimmen
to which this declaration relates are in conformity with the following standards

EN 61326-1:2006

bei ATEX Richtlinie
in case of ATEX Directive

EN 60079-0:2009 EN 60079-11:2012 EN 60079-15:2010

Gemäß den Bestimmungen der Richtlinie (falls zutreffend)
Following the provisions of Directive (if applicable)

EMV – Richtlinie	/ EMC Directive	2004 / 108 / EG	15. Dez.2004
Richtlinie ATEX 100a	/ Directive ATEX 100a	94 / 9 / EG	23. März 1994

Weitere Normen, Bemerkungen
additional standards, remarks

Aussteller der EG- Baumusterprüfbescheinigung:
Physikalisch-Technische Bundesanstalt
Bundesallee 100, D-38116 Braunschweig
Kenn-Nr. 0102, Registriernummer: PTB 12 ATEX 2009 Kennzeichnung Ex II 3 (2) G

Mülheim, den 26.11.2012 i.V. W. Bibernell

(i.V. W. Bibernell)

Ort und Datum der Austellung / Place and date of issue

Name und Unterschrift des Befugten / Name and signature of authorized person