



(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 03 ATEX 1028



(4) Equipment: I/O fieldbus system, types Excom EG-VA.... / M...-K/MT..
and Excom EG-VA.../BV68....

(5) Manufacturer: Hans Turck GmbH & CO KG

(6) Address: Witzlebenstraße 7, 45472 Mülheim a. d. 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 report PTB Ex 03-12393.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997+ A1 + A2 EN 50019:2000 EN 50020:1994 EN 50028:1987

(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 2 G EEx em ib[ia] IIC T4

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, March 24, 2003

Dipl.-Phys. U. Wöckel



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1028

(15) Description of equipment

The I/O fieldbus system, types EG-VA.... / M..-K/MT.. and Excom EG-VA..../BV68....., consists of a stainless-steel enclosure which is designed to type of protection Increased Safety "e" and which accommodates a module rack that can be fitted with a number of modules. Control components may additionally be fitted. Connection is by means of explosion-proof cable entries.

All integrated elements and extension components have been tested and certified under a separate test certificate.

Technical data

Rated voltage U_e :	to	40 V
Rated current I_e :	max.	11 A
Rated cross section:	max.	2.5 mm ²
Ambient temperature range:		-20 °C to +53 °C

To make sure that the maximum temperature for temperature class T4 will not be exceeded, the maximum ambient temperature will be reduced on the basis of the power of the modules installed.

Power P_{in}	Ambient temperature rating
EG-VA6555	
$P_{in} < 59$ W	-20 °C to +40 °C
$P_{in} < 50$ W	-20 °C to +45 °C
$P_{in} < 40$ W	-20 °C to +50 °C
$P_{in} < 30$ W	-20 °C to +53 °C
EG-VA4055	
$P_{in} < 30$ W	-20 °C to +48 °C
$P_{in} < 20$ W	-20 °C to +53 °C

(16) Test report PTB Ex 03-12393

(17) Special conditions for safe use

None

Notes for manufacturing and operation

Operators designed to type of protection Increased Safety "i" shall be installed such that the clearance and creepage distances that are required according to EN 60079-14 between intrinsically safe and non-intrinsically safe circuits are duly considered.

If the clearance requirements as specified in EN 50020, section 6.3, are not met, terminals and wiring that meet the quality criteria Increased Safety "e" shall also be used for the intrinsically safe circuits.

When using more than one intrinsically safe circuit, the rules and regulations for interconnection shall duly be observed.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle für EMV- und Ionenschutz
By order:


Dipl.-Phys. U. Völkel



Braunschweig, March 24, 2003


1st SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1028

(Translation)

Equipment: I/O fieldbus system, types Excom EG-VA.... / M...-K/MT..
and Excom EG-VA..../BV68....

Marking:  II 2 G EEx em ib [ia] IIC T4

Manufacturer: Hans Turck GmbH & CO KG

Address: Witzlebenstraße 7, 45472 Mülheim a. d. Ruhr, Germany

Description of supplements and modifications

The I/O fieldbus system, types Excom EG-VA.... / M...-K/MT.. and Excom EG-VA..../BV68.... , is extended to include type EG-VA..../BV67..... .

This type uses a separately certified stainless-steel empty enclosure designed to Increased Safety "e" type of protection, which does not have a window.

It may be fitted with the module racks, type codes 04, 05, 06, 07, 08, 09 and 14, 15, 16, as certified under the 1st supplement for EC type examination certificate PTB 00 ATEX 2194 U.

It may be fitted with the series-element module racks, type MT-PPS..., type codes 81, 82, 83, 91, 92, 93, as certified under EC type examination certificate PTB 04 ATEX 2091 X.

It may be fitted with the control components certified under EC type examination certificate PTB 04 ATEX 2057 X.

The marking is, therefore, changed to read:

 II 2 G EEx emq ib[ia] IIC T4

The I/O fieldbus system may be fitted with – separately certified – fibre-optic converters and terminal blocks.

Technical data

The composition of the protection symbol will be based on the types of protection of the components actually used.

The electrical operating data are subject to the power supply unit and the series elements of the I/O fieldbus system. For details, refer to EC type examination certificate PTB 00 ATEX 2194 U.

With mounted module racks of type codes 04, 05, 06, 07, 08, 09 and 14, 15, 16, as well as module rack and series-element module rack of type code 81, 82, 83, 91, 92, 93 combined:

Rated voltage U_e : up to 230 V

With mounted module racks of type codes 01, 02, 03 and 11, 12, 13:

Rated voltage U_e : up to 40 V

Rated current I_e : max. 11 A

Rated cross section: max. 4 mm² rigid
..... 2.5 mm² flexible

Only with mounted control components of type codes 01 and 02 the following applies:

Rated cross section: max. 2.5 mm² rigid
..... 2.5 mm² flexible

Ambient temperature range:

EG-VA6555 / BV67... and EG-VA6555 / BV68...
with mounted module racks of type codes
01, 02, 03, 11, 12, 13 -20 °C to +53 °C

EG-VA4055 / BV67... and EG-VA4055 / BV68...
with mounted module racks of type codes
11, 12, 13 -20 °C to +53 °C

EG-VA6555 / BV67... and EG-VA6555 / BV68...
with mounted module racks of type codes
04, 05, 06, 07, 08, 09, 14, 15, 16, 81, 82, 83..... -20 °C to +48 °C

EG-VA4055 / BV67... and EG-VA4055 / BV68...
with mounted module racks of type codes
14, 15, 16, 91, 92, 93 -20 °C to +48 °C

To make sure that the maximum temperature for compliance with temperature class T4 will not be exceeded, the maximum ambient temperature is reduced in line with the power rating of the installed modules.

For details, reference is made to the operating manual.

Power P_{in} Admissible ambient temperatures

EG-VA6555 / BV 67... and EG-VA6555 / 68...
with mounted module racks of type codes 01, 02, 03 and 11, 12, 13

$P_{in} < 59$ W -20 °C to +40 °C

$P_{in} < 50$ W -20 °C to +45 °C

$P_{in} < 40$ W -20 °C to +50 °C

$P_{in} < 30$ W -20 °C to +53 °C

EG-VA4055 / BV 67... and EG-VA4055 / BV 68...
with mounted module racks of type codes 11,12,13

$P_{in} < 30$ W -20 °C to +48 °C

$P_{in} < 20$ W -20 °C to +53 °C

EG-VA6555 / BV67... and EG-VA6555 / BV68...
with mounted module racks of type codes 04,05,06, 07, 08, 09, 14, 15, 16, 81, 82, 83

$P_{in} < 55 \text{ W}$	-20 °C to +34 °C
$P_{in} < 50 \text{ W}$	-20 °C to +37 °C
$P_{in} < 40 \text{ W}$	-20 °C to +43 °C
$P_{in} < 30 \text{ W}$	-20 °C to +48 °C

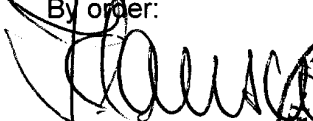
EG-VA4055 / BV67... and EG-VA4055 / BV68...
with mounted module racks of type codes 14, 15, 16, 91, 92, 93

$P_{in} < 30 \text{ W}$	-20 °C to +41 °C
$P_{in} < 20 \text{ W}$	-20 °C to +48 °C

Test report: PTB Ex 04-14314

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, November 19, 2004

2nd SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1028
(Translation)

Equipment: I/O fieldbus system, types Excom EG-VA.... / M..-K/MT..
and Excom EG-VA..../BV68....

Marking: II 2 G EEx emq ib[ia] IIC T4

Manufacturer: Hans Turck GmbH & CO KG

Address: Witzlebenstraße 7, 45472 Mülheim a. d. Ruhr, Germany

Description of supplements and modifications

The I/O fieldbus system, types Excom EG-VA.... / M..-K/MT.. , Excom EG-VA..../BV68...., and EG-VA..../BV67.... , may be fitted with fibre-optic coupler type OC11Ex/2G, certified in EC Type Examination Certificate PTB 05 ATEX 2051 X; and with heater type HCM 130-T4-10-3., certified in EC Type Examination Certificate PTB 03 ATEX 1139 X, using – separately certified – terminals.

The symbol is supplemented to read:

II 2 G EEx e d mb q ib [ia] [ib op is] IIC T4

The composition of the protection symbol is based on the types of protection of the components actually used.

Technical data

Rated voltage (heater) up to 230 V
Rated current (heater) max. 0.57 A
Rating (heater) max. 130 W

Applied standards

EN 50014:1997 + A1 + A2	EN 50018:2000 + A1	EN 50019:2000
EN 50020:2002	EN 60079-18:2004	IEC 60079-28 Ed. 1.0 CDV

Test report: PTB Ex 05-15358

Zertifizierungsstelle Explosionsschutz

Braunschweig, December 7, 2005

By order:

Dr.-Ing. U. Klausmeyer
Direktor und Professor

Sheet 1/1

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.


3rd SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1028

(Translation)

Equipment: I/O field bus system , types Excom EG-VA.... / M..-K/MT.. ,
Excom EG-VA..../BV68.... and EG-VA..../BV67....

Marking:  II 2 G EEx e d mb q ib [ia] [ib or is] IIC T4

Manufacturer: Hans Turck GmbH & Co. KG

Address: Witzlebenstraße 7, 45472 Mülheim an der Ruhr, Germany

Description of supplements and modifications

The I/O field bus system, types Excom EG-VA.... / M..-K/MT.. ,Excom EG-VA..../BV68.... and EG-VA..../BV67.... has been re-inspected on the basis of Standards EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-11 and EN 60079-28.

The marking will thus change to:

 II 2 G Ex e d mb q ib [ia] [ib op is] IIC T4

The technical data will not be affected by these changes.

The composition of the type-of-protection symbol depends on the types of protection of components actually used.

Notes for manufacturing and operation

Components attached or installed have to be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions, and be covered by a separate examination certificate.

Equipment designed to Intrinsic Safety "i" type of protection has to be installed so that the clearance and creepage distances specified in EN 60079-14 between intrinsically safe and non-intrinsically safe circuits are maintained.

If the clearance requirements specified in EN 60079-11, section 6.2, are not complied with, terminals and wiring of Increased Safety "e" quality standard must also be used for intrinsically safe circuits.

When connecting more than one intrinsically safe circuit, the rules and regulations for interconnection must be observed.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

3rd SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1028

Applied standards

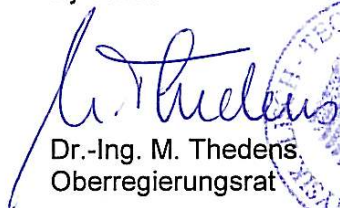
EN 60079-0:2006 EN 60079-1:2004 EN 60079-7:2003 EN 60079-11:2007
EN 60079-18:2004 EN 60079-28:2007 EN 50017:1998

Test report: PTB Ex 08-18156

Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, August 20, 2008



Dr.-Ing. M. Thedens
Oberregierungsrat



4. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 1028

(Translation)

Equipment: I/O fieldbus system, types Excom EG-VA.... / M...-K/MT...,
Excom EG-VA..../BV68 and EG-VA..../BV67....

Marking:  II 2 G Ex e d mb q ib [ia] [ib op is] IIC T4

Manufacturer: HANS TURCK GmbH & Co KG

Address: Witzlebenstraße 7, 45472 Mülheim an der Ruhr, Germany

Description of supplements and modifications

The I/O fieldbus system, types Excom EG-VA.... / M...-K/MT..., Excom EG-VA..../BV68.... and EG-VA..../BV67.... is supplemented by the manufactured sizes up to 1200 mm x 2000 mm x 500 mm.

Technical data

Manufactured sizes: smallest: 650 mm x 550 mm x 210 mm
largest: 1200 mm x 2000 mm x 500 mm

Ambient temperature range: -20 °C to +53 °C

Shock protection, protection against solid bodies,
and protection against ingress of water. IP54 in accordance with EN 60529

The maximum temperature of temperature class T4 must not be exceeded. Therefore the maximum ambient temperature is limited dependent on the power of the modules installed.

The tables from the 1st supplement shall likewise apply to this supplement.

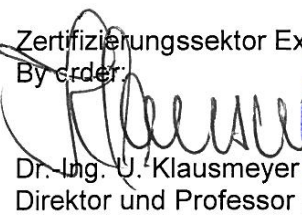
Applied standards

EN 60079-0:2006 EN 60079-1:2007 EN 60079-7:2007 EN 60079-11:2007
EN 60079-18:2004 EN 60079-28:2007 EN 50017:1998

Assessment and test report: PTB Ex 09-19230

Zertifizierungssektor Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Direktor und Professor



Braunschweig, October 9, 2009

Sheet 1/1

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Wir/ We **HANS TURCK GMBH & CO KG**
Witzlebenstr. 7, 45472 Mülheim an der Ruhr, Germany

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

I/O Feldbussystem excom® / I/O fieldbussystem excom®

Baureihe / series:

EG-VA....../BV68....
EG-VA....../BV67....

Ex-Kennzeichnung (abhängig von den im Schrank eingebauten Komponenten):
Ex-marking (depending on the components installed in the enclosure):

Gas / gas  II 2 G Ex e d mb q ib [ia] [ib op is] IIC T4

Typen siehe Anlage / types see annex

auf die sich die Erklärung bezieht, den Anforderungen der folgenden EU-Richtlinien durch Einhaltung der
folgenden harmonisierten Normen genügen:
to which this declaration relates are in conformity with the requirements of the following EU-directives by compliance with the following
harmonised standards:

EMV – Richtlinie / EMC Directive	2014 / 30 / EU	26. Feb. 2014	
EN 61326-1: 1*)	EN 61000-3-2: 1*)	EN 61000-6-3: 1*)	EN 61000-6-2: 1*)
EN 61000-6-4: 1*)			

Richtlinie / Directive ATEX	2014 / 34 / EU	26. Feb. 2014	
EN 60079-0: 1*)	EN 60079-1: 1*)	EN 60079-5: 1*)	EN 60079-7: 1*)
EN 60079-11: 1*)	EN 60079-18: 1*)	EN 60079-25: 1*)	EN 60079-26: 1*)
EN 60079-28: 1*)	EN 60079-31: 1*)		

Niederspannungsrichtlinie/ Low Voltage Directive	2014 / 35 / EU	26. Feb. 2014	
EN 61010-1: 1*)	EN 50178: 1*)	EN 60529: 1*)	

Weitere Normen, Bemerkungen
additional standards, remarks

1*) Angewandte Normen, sowie Jahreszahlen bitte den EU-Konformitätserklärungen der tatsächlich bestückten Betriebsmittel entnehmen.

1*) Please find the applicable standards, as well as the annual figures in the EU declarations of conformity of the actual assembled devices and modules

Angewandtes ATEX-Konformitätsbewertungsverfahren / ATEX - conformity assessment procedure applied:

Modul B + Modul E (enthalten in Modul D) / module B + module E (part of module D)

EU-Baumusterprüfbescheinigung (Modul B) PTB 03 ATEX 1028 / EU-type examination certificate (module B):

ausgestellt von / issued by: Physikalisch Technische Bundesanstalt, Kenn-Nr. / number 0102,
Bundesallee 100, 38116 Braunschweig, Germany

Zertifizierung des QS-Systems gemäß Modul D durch:

certification of the QS-system in accordance with module D by :

Physikalisch Technische Bundesanstalt, Kenn-Nr. / number 0102,
Bundesallee 100, 38116 Braunschweig, Germany

Mülheim, den 13.03.2017



i.V. U. Vix, CE-Koordinatorin / CE Coordinator

Ort und Datum der Ausstellung /
Place and date of issue

Name, Funktion und Unterschrift des Befugten /
Name, function and signature of authorized person

Anlage / annex:

Typenbezeichnung gemäß PTB 30 ATEX 1028 4. Ergänzung

Typecode according to PTB 30 ATEX 1028 4. supplement

Edelstahl-Gehäuse / stainless steel housings (PTB00ATEX1101U)

EG – VAxx xx xx/ BV67xx x x	aus V2A ohne Fenster	stainless steel V2A without window
EG – VAxx xx xx/ BV68 xx x x	aus V4A mit Fenster	stainless steel V4A with window
	<p>Verwendete Kabeleinführungen:</p> <p>1 M16-K komplett</p> <p>2 M20-K komplett gebohrt</p> <p>5/... Flanschplatte mit Bohrungen nach Kundenvorgabe 1*)</p>	<p>Cable entries used:</p> <p>1 M16-K Completely drilled</p> <p>2 M20-K Completely drilled</p> <p>5/... Flange plate with drilled holes according to customer specific. 1*)</p>
	<p>Steuer- und Regelkomponenten</p> <p>0 zur Zeit nicht belegt</p> <p>1 Eine Steuer- und Regelkomponente (PTB97ATEX1068U)</p> <p>2 Zwei Steuer- und Regelkomponenten (PTB97ATEX1068U)</p> <p>3 Steuer- und Regelkomponente t PS-F24Ex/1 (PTB04ATEX2057X)</p> <p>4 Steuer- und RegelkomponentePS-F24Ex/2 (PTB04ATEX2057X)</p>	<p>Control and regulating components</p> <p>0 not yet available</p> <p>1 1 Control and regulating component (PTB97ATEX1068U)</p> <p>2 Two Control and and regulating components (PTB97ATEX1068U)</p> <p>3 Control and regulating component PS-F24Ex/1 (PTB04ATEX2057X)</p> <p>4 Control and regulating component PS-F24Ex/2 (PTB04ATEX2057X)</p>
	<p>Eingebauter Modulträger (PTB00ATEX2194U): (Varianten für Exi Feldbusanschlusssteile und Versorgung):</p> <p>01 Typ MT18-R024</p> <p>02 Typ MT 18-C024</p> <p>03 Typ MT 18-S024</p> <p>04 Typ MT 18-R230</p> <p>05 Typ MT 18-C230</p> <p>06 Typ MT 18-S230</p> <p>07 Typ MT 18-R230 / 1</p> <p>08 Typ MT 18-C230 / 1</p> <p>09 Typ MT 18-S230 / 1</p> <p>11 Typ MT 9-R024</p> <p>12 Typ MT 9-C024</p> <p>13 Typ MT 9-S024</p> <p>14 Typ MT 9-R230</p> <p>15 Typ MT 9-C230</p> <p>16 Typ MT 9-S230</p> <p>81 Typ MT -PPS2 mit MT18-R024</p> <p>82 Typ MT -PPS2 mit MT18-C024</p> <p>83 Typ MT -PPS2 mit MT18-S024</p> <p>91 Typ MT -PPS2 mit 1 x MT9-R024</p> <p>92 Typ MT -PPS2 mit 1 x MT9-C024</p> <p>93 Typ MT -PPS2 mit 1 x MT9-S024</p>	<p>Installed module rack (PTB00ATEX2194U): (Variants for Exi fieldbus connection parts and supply):</p> <p>01 Type MT18-R024</p> <p>02 Type MT 18-C024</p> <p>03 Type MT 18-S024</p> <p>04 Type MT 18-R230</p> <p>05 Type MT 18-C230</p> <p>06 Type MT 18-S230</p> <p>07 Type MT 18-R230 / 1</p> <p>08 Type MT 18-C230 / 1</p> <p>09 Type MT 18-S230 / 1</p> <p>11 Type MT 9-R024</p> <p>12 Type MT 9-C024</p> <p>13 Type MT 9-S024</p> <p>14 Type MT 9-R230</p> <p>15 Type MT 9-C230</p> <p>16 Type MT 9-S230</p> <p>81 Type MT -PPS2 with MT18-R024</p> <p>82 Type MT -PPS2 with MT18-C024</p> <p>83 Type MT -PPS2 with MT18-S024</p> <p>91 Type MT -PPS2 with 1 x MT9-R024</p> <p>92 Type MT -PPS2 with 1 x MT9-C024</p> <p>93 Type MT -PPS2 with 1 x MT9-S024</p>
	<p>Gehäuseabmessungen 2*):</p> <p>xx(x) Breite ≥40 cm ... ≤120 cm</p> <p>xx(x) Höhe ≥55 cm ... ≤200 cm</p> <p>xx Tiefe ≥21 cm ... ≤ 50 cm</p>	<p>Housing dimensions 2*):</p> <p>xx(x) width ≥40 cm ... ≤120 cm</p> <p>xx(x) height ≥55 cm ... ≤200 cm</p> <p>xx depth ≥21 cm ... ≤ 50 cm</p>

1*): Erweiterte Bestückung, z.B. zusätzlicher Einbau von Lichtwellenleiterumsetzer und Exi Reihenklammern
Advanced equipment, e.g. Additional installation of optical fiber converters and Exi series terminals

2*): Die Reihenfolge der Angabe ist BB(B)HH(H)TT. Die Tiefenangabe des Gehäuses kann entfallen, wenn das Gehäuse standardmäßig 21 cm tief ist.
The order of indication is ww(w)hh(h)dd. The indication of the depth of the housing can be omitted, if the enclosure has standard depth 21 cm.