

**ATEX Examination Certificate****- Directive 94/ 9/ EC -****Equipment Intended For Use  
In Potentially Explosive Atmospheres****Number: TURCK Ex-13023M****Equipment: Control cabinet EG-VA\*\*552\*/112-0400  
EG-VA\*\*552\*/112-0500  
EG-VA\*\*552\*/112-0600****Manufacturer: Hans Turck GmbH & Co. KG****Address: Witzlebenstr. 7 D- 45472 Mülheim an der Ruhr**

This equipment is specified in the schedule to this certificate.

Hans Turck GmbH &amp; Co. KG certifies that compliance with the Basic Health and Safety Requirements of Directive 94/9/EC has been assured by compliance with

**EN 60079-0:2009  
EN 60079-7:2007****EN 60079-11:2012****EN 60079-15:2010**

The test results are recorded in a test report with the same number. The marking of the equipment shall include the following:

**II 3 (1) G Ex nA e ib ic [ia Ga] IIC T4 Gc**

or

**II 3 (1) G Ex nAc eb ib ic [ia] IIC T4****Hans Turck GmbH & Co. KG****HANS TURCK GmbH & CoKG**  
Witzlebenstr. 7, ☎ (02 08) 4952-0  
45472 Mülheim an der Ruhr  
E-Mail: turckmh@mail.turck-globe.de  
Internet: www.turck.com*N. Schmidt***Mülheim, 1 October 2013****(by authority of N. Schmidt)  
Authorised representative**

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### Schedule to ATEX Examination Certificate TURCK Ex-13023M

#### Description of the Equipment

The control cabinet contains an *excom*® remote I/O system, which provides intrinsically safe field circuits. Additional open- and closed loop control components may be installed for operation of the remote I/O system if separate permissions for use in Zone 2 are provided for this purpose. The housing has approved cable and line entries for introducing wiring.

#### Ambient temperature range:

In order to avoid exceedance of the maximum temperature for temperature class T4, the maximum ambient temperature is reduced in accordance with the power of the installed modules and control components.

EG-VA\*\*552\*/112-0\*00

04=module support MT08-3G, 05=MT16-3G, 06=MT24-3G

WWHHDD WW=housing width in cm, HH=height in cm, depth in cm  
(40, 46, 65, 80 cm) (55 cm) (21, 26 cm)

65 x 55 x DD cm<sup>3</sup> standard housing and  
> 65 x > 55 x DD cm<sup>3</sup> to < 80 x ≥ 55 x DD cm<sup>3</sup>  
(DD = housing depth, at least 21 cm)

EG – VA65552*/112-**0*/...	
Pin < 60 W	-20°C ... +37°C
Pin < 50 W	-20°C ... +42°C
Pin < 40 W	-20°C ... +47°C
Pin < 30 W	-20°C ... +52°C
Pin < 20 W	-20°C ... +57°C

80 x 55 x DD cm<sup>3</sup> standard housing and  
> 80 x > 55 x DD cm<sup>3</sup>  
(DD = housing depth, at least 21 cm)

EG – VA80552*/112-**0*/...	
Pin < 60 W	-20°C ... +42°C
Pin < 50 W	-20°C ... +46°C
Pin < 40 W	-20°C ... +51°C
Pin < 30 W	-20°C ... +55°C
Pin < 20 W	-20°C ... +59°C

46 x 55 x 26 cm<sup>3</sup> standard housing and  
40 x 55 x 21 cm<sup>3</sup> standard housing

EG - VA465526/***_**0*/...	
Pin < 60 W	-20°C ... +37°C
Pin < 50 W	-20°C ... +41°C
Pin < 40 W	-20°C ... +46°C
Pin < 30 W	-20°C ... +50°C
Pin < 20 W	-20°C ... +54°C

Electrical data:

Rated voltage without ballast  
Rated current  
Rated cross-section

max. 40 V  
max. 11 A  
max. 2.5 mm<sup>2</sup>

Internal test report no. 13023M

Special conditions for safe use:

- The instructions in the system manual must be followed when connecting and operating the *excom*<sup>®</sup> field bus system
- Cable and line introductions not in use must be properly closed
- Non-intrinsically safe circuits must be protected against contact by an IP30 cover. This must not be opened while live.
- Further open- and closed-loop control devices certified for operation in Zone 2 and with temperature class T4 may be installed on a prepared assembly rail. These must be taken into account in the temperature considerations for determining the maximum ambient temperature, in accordance with their power dissipation.
- Only devices whose ignition protection type matches the type plate may be installed.
- Additional wiring must be laid according to the zone plan in the control cabinet. A clearance of 50 mm must be ensured between the connection parts of intrinsically safe and non-intrinsically safe circuits. There must be a clearance of 6 mm between different intrinsically safe circuits.
- Intrinsically safe and non-intrinsically safe lines must be laid separately.
- The information on the installed components must be observed to ensure safe use and wiring.

Basic health and safety requirements

No additional

Translation

**1. SUPPLEMENT to ATEX – Type Examination Certificate****- Directive 94/ 9/ EC -****Number: TURCK Ex-13023M**

<b>Equipment: Control cabinet</b>	<b>EG-VA**552*/112-0400</b>	<b>EG-VA**552*/113-0400</b>
	<b>EG-VA**552*/112-0500</b>	<b>EG-VA**552*/113-0500</b>
	<b>EG-VA**552*/112-0600</b>	<b>EG-VA**552*/113-0600</b>

**Manufacturer: Hans Turck GmbH & Co. KG**  
**Address: Witzlebenstr. 7 D- 45472 Mülheim an der Ruhr**

Description of supplements:

Housing with the possibility of special flange plates (cable entries) have been added.  
 The standards were updated. All other disclosures of the certificate shall stand unchanged.

Applied standards:

<b>EN 60079-0:2012</b>	<b>EN 60079-11:2012</b>	<b>EN 60079-15:2010</b>
<b>EN 60079-7:2007</b>		

Marking:

 **II 3 (1) G Ex nA e ib ic [ia Ga] IIC T4 Gc**

alternative

 **II 3 (1) G Ex nAc eb ib ic [ia] IIC T4**

Hans Turck GmbH &amp; Co. KG

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i.v. N. Schmidt

(by authority of N. Schmidt)  
 Authorised representative

Mülheim, date 2015-03-17

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Translation

**Schedule to:****1. SUPPLEMENT to ATEX Examination Certification Ex-13023M**Type designation

EG-VA\*\*552\*/11\*-0\*00

04=module carrier MT08-3G, 05=MT16-3G, 06=MT24-3G

2=flange plate M20 drill holes

3=special flange plates

WWHHDD WW=housing width in cm, HH=height in cm, depth in cm

(40, 46, 65, 80cm)

(55cm)

(21, 26cm)

Internal test report

3G\_1\_D\_PB\_~\_TURCKEx-13023M

**Translation****2. ISSUE to ATEX – Type Examination Certificate****- Directive 94/ 9/ EC -****Number: TURCK Ex-13023M****Equipment: Control cabinet EG-VA BBHHTT/\*\*-0\*\*\*/ ...****Manufacturer: Hans Turck GmbH & Co. KG****Address: Witzlebenstr. 7 D- 45472 Mülheim an der Ruhr**Description of supplements:

The supplement is completely redesigned and has an expanded type code of system enclosure and additional the approval for zone 22.

Applied standards:

<b>EN 60079-0:2012</b>	<b>EN 60079-11:2012</b>	<b>EN 60079-15:2010</b>
<b>EN 60079-7:2007</b>	<b>EN 60079-18:2009</b>	<b>EN 60079-29:2007</b>
<b>EN 60079-1:2007</b>	<b>EN 60079-31:2009</b>	<b>EN 60079-25:2010</b>

Marking:

**II 3 (1) G Ex nA nC e d m ib ic [ia Ga] [ib op is Gb] IIC T4 Gc or alternative  
II 3 (1) G Ex nAc nCc eb db mb ib ic [ia] [ib op is] IIC T4**



**II 3 D Ex tc IIIC T135°C Dc or alternative  
II 3 D Ex tc IIIC T135°C**

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

**Hans Turck GmbH & Co. KG**

**HANS TURCK GmbH & CoKG**  
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(by authority of N. Schmidt)  
Authorized representative

Mülheim, date 2015-07-03

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**Annex to the 2. Issue  
TURCK Ex-13023M**Description of the Equipment:

The control cabinet contains an *excom*<sup>®</sup> I/O fieldbus system, which provides intrinsically safe field circuits. Additional open- and closed loop control components may be installed for operation of the *excom*<sup>®</sup> I/O fieldbus system if separate permissions for use in Zone 2 are provided for this purpose. The Ex e stainless steel case, as well as the ex-approved cable entries and the breather-drainer have an ingress protection of IP66, so that an installation in Zone 2 or in zone 22 is permitted.

The 2nd supplement has been completely redesigned and has an expanded type code of system enclosure, as well as additional other types of protection. Additionally, the Ex approval has been expanded for use in Zone 22.

The takeover of the table values (power loss – permissible ambient temperature range) for the Zone 2 stems from the approval documentation 0.1 of the 4. Supplement PTB 03 ATEX 1028, which has been stamped with PTB Ex 09-19230. The indicated power dissipation  $P_{in}$  on the nameplate is the maximum sum of all services, which can be installed in the housing. The power loss of the built-in heating mustn't be considered, because the heating switches off, if the temperature is higher than +18°C. The maximum allowable power dissipation for the specified ambient temperature mustn't be exceeded; there with the internal temperature doesn't exceed 60°C.

It can be accepted the same values (power loss – permissible ambient temperature range) for the zone 22, because the 1st supplement BVS 05 ATEX E 151 based on the same parameters of the PTB 03 ATEX 1028. Housing, cable entries and breather-drainer are according to IP6X and EN 60079-0 for conductive dusts IIIC and so is a safe operation within the zone 22 possible.

Electrical data:

Rated voltage without ballast	max. 40 V
Rated current	max. 11 A
Rated cross-section	max. 2.5 mm <sup>2</sup>

Internal test report:

3GD\_2\_D\_PB\_~\_TURCKEx-13023M



Housing  $\geq 65 \times \geq 55 \times \geq 21 \text{ cm}^3$   
WW x HH x DD

EG-VA WWHHDD/***-0*0*/...	
Pin < 59 W	-20°C ... +40°C
Pin < 50 W	-20°C ... +45°C
Pin < 40 W	-20°C ... +50°C
Pin < 30 W	-20°C ... +53°C

Housing  $\geq 65 \times \geq 55 \times \geq 21 \text{ cm}^3$   
WW x HH x DD

EG-VA WWHHDD/***-0*a*/...	
Pin < 55 W	-20°C ... +34°C
Pin < 50 W	-20°C ... +37°C
Pin < 40 W	-20°C ... +43°C
Pin < 30 W	-20°C ... +48°C

if a  $\neq 0$ , then select this table

Housing  $\geq 40 \times \geq 55 \times \geq 21 \text{ cm}^3$   
WW x HH x DD

EG-VA WWHHDD/***-0*0*/...	
Pin < 30 W	-20°C ... +48°C
Pin < 20 W	-20°C ... +53°C

Housing  $\geq 40 \times \geq 55 \times \geq 21 \text{ cm}^3$   
WW x HH x DD

EG-VA WWHHDD/***-0*a*/...	
Pin < 30 W	-20°C ... +41°C
Pin < 20 W	-20°C ... +48°C

if a  $\neq 0$ , then select this table

### Special conditions for safe use:

- The instructions in the system manual must be followed when connecting and operating the *excom*<sup>®</sup> field bus system.
- Cable and line introductions not in use must be properly closed.
- Non-intrinsically safe circuits must be protected against contact by an IP30 cover. This must not be opened while live.
- Further open- and closed-loop control devices certified for operation in Zone 2 and with temperature class T4 may be installed on a prepared assembly rail. These must be taken into account in the temperature considerations for determining the maximum ambient temperature, in accordance with their power dissipation.
- Only devices whose ignition protection type matches the type plate may be installed.
- Additional wiring must be laid according to the zone plan in the control cabinet. A clearance of 50 mm must be ensured between the connection parts of intrinsically safe and non-intrinsically safe circuits. There must be a clearance of 6 mm between different intrinsically safe circuits.
- Intrinsically safe and non-intrinsically safe lines must be laid separately.
- The information on the installed components must be observed to ensure safe use and wiring.

### Basic health and safety requirements:

No additional

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

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

**Schaltschrank EG-VA\*\*\*\*\*/\*\*-0\*\*\***  
Control cabinet

Typen siehe Anlage /

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 60079-11: 1*)	EN 60079-15: 1*)	EN 60079-26: 1*)
EN 60079-7: 1*) EN 60079-18: 1*)	EN 60079-29: 1*)	
EN 60079-1: 1*) EN 60079-31: 1*)	EN 60079-25: 1*)	

Niederspannungsrichtlinie/ Low Voltage Directive	2014 / 35 / EU	26. Feb. 2014
EN 61010-1: 1*) EN 60950-1: 1*)	EN 50178: 1*)	EN 61204: 1*)
EN 61558-2-17: 1*) EN 60529: 1*)		

Weitere Normen, Bemerkungen  
additional standards, remarks

1\*) Angewandte Normen, sowie Jahreszahlen bitte den EG-Konformitätserklärungen der tatsächlich bestückten Betriebsmittel entnehmen.  
1\*) Please find the applicable standards, as well as the annual figures in the EC declarations of conformity of the actual assembled devices and modules.

Angewandtes ATEX-Konformitätsbewertungsverfahren:

ATEX - conformity assessment procedure applied:

Modul A (interne Fertigungskontrolle)

Module A (Internal Production Control)


Aussteller der ATEX - Prüfbescheinigung:

Supplier of the ATEX – examination certificate:

Hans Turck GmbH & Co. KG  
Witzlebenstraße 7, 45472 Mülheim an der Ruhr

Bescheinigung Nummer: TURCK Ex-13023M  
Certificate number:

Kennzeichnung  
Marking

 II 3 (1) G  
II 3 D

Mülheim, den 08.07.2016



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 / appendix:

**Typenschlüssel Systemgehäuse / Type code of system enclosure**

<p>EG – VA xx xx xx/***-0***/ ...</p>	<p><b>Sondernummer</b>                      Sondernummer für Zusatzeinbauten, wie Begleitheizungen, Trennschalter, Sicherungen oder Bohrbild  <b>Systemgehäuse</b></p> <p><b>Segmentkoppler</b>                      ohne Einbau von Segmentkopplern                      1 Einbau von einem Segmentkoppler OC11Ex/2G                      2 Einbau von zwei Segmentkopplern OC11Ex/2G                      3 Einbau eines anderen Kopplers                      4 Einbau zweier anderer Koppler</p> <p><b>Vorschaltbaugruppe</b>                      0 ohne Vorschaltbaugruppe                      2 Einbau von 1 Netzteil 230VAC                      3 Einbau von 2 Netzteilen 230VAC</p> <p><b>Modulträger</b>                      00 ohne Modulträger                      04 Modulträger MT08-3G                      05 Modulträger MT16-3G                      06 Modulträger MT24-3G</p> <p><b>Bohrbild</b>                      0 Blindplatte                      1 Flanschplatte M16 max. Bestückung                      2 Flanschplatte M20 max. Bestückung                      3 Sonderausführung, z.B. Bohrbild, erfasst über Sonderrn.                      4 Flanschplatte M16 Standard Bestückung                      5 Flanschplatte M20 Standard Bestückung</p> <p><b>Sichtfenster</b>                      0 ohne Sichtfenster                      1 mit Sichtfenster</p> <p><b>Material</b>                      0 Edelstahl 1.4301                      1 Edelstahl 1.4404</p> <p><b>Gehäuseabmessungen</b>                      xx Tiefe ≥21 cm ... ≤ 50 cm                      xx(x) Höhe ≥55 cm ... ≤200 cm                      xx(x) Breite ≥40 cm ... ≤120 cm</p> <p><b>Optionale Kennzeichnung</b>                      VA Optionale Kennzeichnung</p> <p><b>Systemgehäuse</b>                      EG excom® - Systemgehäuse, Edelstahlausführung</p>	<p><b>Special number</b>                      special number for all extra fitments, such as trace heating, circuit breaker, fuses or drilling pattern  <b>System enclosure</b></p> <p><b>Segment coupler</b>                      0 without installed segment coupler                      1 with one installed segment coupler OC11Ex/2G                      2 with two installed segment couplers OC11Ex/2G                      3 installation of another coupler                      4 installation of two other couplers</p> <p><b>Upstream power supply unit 230VAC</b>                      0 without upstream supply unit                      2 with 1 power supply unit                      3 with 2 ower supply units</p> <p><b>Module rack</b>                      00 no module rack                      04 module rack MT08-3G                      05 module rack MT16-3G                      06 module rack MT24-3G</p> <p><b>Drilling pattern</b>                      0 dummy plate                      1 flange plate M16 maximum equipping                      2 flange plate M20 maximum equipping                      3 special version, e.g. drilling pattern, see special number                      4 flange plate M16 default equipping                      5 flange plate M16 default equipping</p> <p><b>Inspection window</b>                      0 without inspection window                      1 with inspection window</p> <p><b>Material</b>                      0 stainless steel 1.4301                      1 stainless steel 1.4404</p> <p><b>Housing dimensions</b>                      xx depth ≥21 cm ... ≤ 50 cm                      xx(x) height ≥55 cm ... ≤200 cm                      xx(x) width ≥40 cm ... ≤120 cm</p> <p><b>Optional labelling</b>                      VA optional labelling</p> <p><b>System enclosure</b>                      EG excom® - System enclosure, stainless steel</p>
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