



(1) TYPE EXAMINATION CERTIFICATE

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

(3) Type Examination Certificate Number:

TÜV 21 ATEX 8643 X

Issue: 02

(4) Equipment: **excom N-system**

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

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

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

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, 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 331 / Ex8643.02 / 21.

(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 IEC 60079-7:2015/A1:2018

EN IEC 60079-15: 2019

(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 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 3 G

Ex ec nC IIC T4 Gc

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-06-13


Digital
unterscriben
von Christian
Mehrhoff

This Type Examination Certificate without signature and stamp shall not be valid and may be circulated only without alteration.
Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
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(14)

Annex to

Type Examination Certificate

TÜV 21 ATEX 8643 X

Issue: 02

(15) Description of Equipment

Equipment and type:

excom N-system

Module racks: MT24-N, MT16-N, MT08-N,

Modules: PSM24-N.1, GDP-N/FW2.3, GEN-N, DI40-N, DI80-N, DO40-N, DO80-N, DO60R-N, DM80-N, AI43-N, AIH401-N, AI411-N, AOH401-N, TI401-N, TI41-N, DF20-N

General product information:

The excom N-system is a modular I/O-system consisting of module racks that accommodate the power supply units, gateways and I/O-modules. The connection of the field devices as well as the external power supply and the fieldbus is on the module rack. The module rack is used for power distribution and data communication between the individual modules.

The I/O-modules are the interface to the periphery, which are connected via the connection layer to the field circuits. A wide range of digital modules, analog modules and function modules are available. The system can be operated in hazardous gas atmospheres of zone 2.

Details of Change:

Module AI411-N was added.

Technical data:

Device	Marking	Electrical Data	Ambient Temperature
MT24-N	Ex ec IIC T4 Gc	$P < 1W$	$-40^{\circ}C \dots +70^{\circ}C$
MT16-N	Ex ec IIC T4 Gc	$P < 1W$	$-40^{\circ}C \dots +70^{\circ}C$
MT08-N	Ex ec IIC T4 Gc	$P < 1W$	$-40^{\circ}C \dots +70^{\circ}C$
PSM24-N.1	Ex ec nC IIC T4 Gc	$U_{in}: 16.5 \dots 32VDC$ $U_N: 24VDC$ $P_{in} < 66.5W$ $P_{out} < 60W$	$-40^{\circ}C \dots +70^{\circ}C$
GDP-N	Ex ec IIC T4 Gc	$P < 1W$	$-40^{\circ}C \dots +70^{\circ}C$
GEN-N	Ex ec IIC T4 Gc	$P < 1.5W$	$-40^{\circ}C \dots +70^{\circ}C$
DI40-N	Ex ec IIC T4 Gc	$P < 1W$	$-40^{\circ}C \dots +70^{\circ}C$
DI80-N	Ex ec IIC T4 Gc	$P < 1W$ 2x 24VDC via external supply	$-40^{\circ}C \dots +70^{\circ}C$
DO40-N	Ex ec IIC T4 Gc	$P < 4.5W$	$-40^{\circ}C \dots +70^{\circ}C$
DO80-N	Ex ec IIC T4 Gc	$P < 2W$ 2x 24VDC via external supply (0.5A per output)	$-40^{\circ}C \dots +70^{\circ}C$
DO60R-N	Ex ec nC IIC T4 Gc	$P < 2W$	$-40^{\circ}C \dots +70^{\circ}C$
DM80-N	Ex ec IIC T4 Gc	$P < 1W$	$-40^{\circ}C \dots +70^{\circ}C$
AI43-N	Ex ec IIC T4 Gc	$P < 1.5W$	$-40^{\circ}C \dots +70^{\circ}C$

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AIH401-N	Ex ec IIC T4 Gc	P < 3W	-40°C+70°C
AI411-N	Ex ec IIC T4 Gc	P < 3W	-40°C+70°C
AOH401-N	Ex ec IIC T4 Gc	P < 3W	-40°C+70°C
TI401-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
TI41-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
DF20-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C

(16) Test report No.: 331 / Ex8643.02 / 21

(17) Special Conditions for safe use

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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