



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TUR 21.0012X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2021-11-30)

Status: **Current** Issue No: 1

Date of Issue: 2024-04-02

Applicant: **Hans Turck GmbH & Co.KG**
Witzlebenstraße 7
45472 Mülheim
Germany

Equipment: **excom N-system**

Optional accessory:

Type of Protection: **Ex ec nC**

Marking: Ex ec nC IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: **Hans Turck GmbH & Co KG**
Witzlebenstr. 7
45472 Mülheim
Germany

Manufacturing
locations: **Hans Turck GmbH & Co KG**
Witzlebenstr. 7
45472 Mülheim
Germany

WernerTurck GmbH & Co. KG
Goethestraße 7
D-58553 Halver
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TUR/ExTR21.0012/01](#)

Quality Assessment Reports:

[DE/PTB/QAR06.0012/06](#)

[DE/PTB/QAR06.0013/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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, AOH401-N, TI401-N, TI411-N, DF20-N

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The ambient temperature range was expanded from -40°C to +70°C for all modules.

Annex:

[DE-IECEX_TUR_21.0012_X_01_Attachment.pdf](#)



Attachment to Certificate
IECEX TUR 21.0012X
Revision 01

Device: excom N-system
Type: 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, AOH401-N, TI401-N, TI41-N,
 DF20-N

Manufacturer: Hans Turck GmbH & Co. KG

Address: Witzlebenstraße 7
 45472 Mülheim an der Ruhr, Germany

Technical data

Device	Marking	Electrical Data	Ambient Temperature
MT24-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
MT16-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
MT08-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
PSM24.N.1	Ex ec nC IIC T4 Gc	U _{in} : 16.5.....32VDC U _N : 24VDC P _{in} < 66.5W P _{out} < 60W	-40°C+70°C
GDP-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
GEN-N	Ex ec IIC T4 Gc	P < 1.5W	-40°C+70°C
DI40-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
DI80-N	Ex ec IIC T4 Gc	P < 1W 2x 24VDC via external supply	-40°C+70°C
DO40-N	Ex ec IIC T4 Gc	P < 4.5W	-40°C+70°C
DO80-N	Ex ec IIC T4 Gc	P < 2W 2x 24VDC via external supply (0.5A per output)	-40°C+70°C
DO60R-N	Ex ec nC IIC T4 Gc	P < 2W	-40°C+70°C
DM80-N	Ex ec IIC T4 Gc	P < 1W	-40°C+70°C
AI43-N	Ex ec IIC T4 Gc	P < 1.5W	-40°C+70°C
AIH401-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