



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEX DEK 13.0085X	Issue No: 2	<u>Certificate history:</u> Issue No. 2 (2014-05-28) Issue No. 1 (2014-03-06) Issue No. 0 (2014-01-10)
Status:	Current	Page 1 of 5	
Date of Issue:	2014-05-28		
Applicant:	Siemens AG Werner-von-Siemens-Strasse 50 92224 Amberg Germany		
Electrical Apparatus:	Operator Panels HMI Comfort		
<i>Optional accessory:</i>			
Type of Protection:	Ex nA and Ex tc		
Marking:	Ex nA IIC T4 Gc Ex tc IIIC T70 °C Dc		

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)



2014-05-28

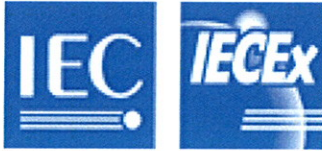
Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands





IECEX Certificate of Conformity

Certificate No: IECEx DEK 13.0085X Issue No: 2
Date of Issue: 2014-05-28 Page 2 of 5
Manufacturer: **Siemens AG**
Werner-von-Siemens-Strasse 50
92224 Amberg
Germany

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4
IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition:1

*This Certificate **does not** indicate compliance with electrical 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:

[NL/DEK/ExTR13.0089/01](#) [NL/DEK/ExTR13.0089/02](#)

Quality Assessment Report:

[NL/DEK/QAR12.0079/00](#)



IECEx Certificate of Conformity

Certificate No: IECEx DEK 13.0085X

Issue No: 2

Date of Issue: 2014-05-28

Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Operator Panels HMI Comfort Type TP ..., Type KTP ..., Type KP ..., Type ITC ... and IFP ... are used for machine operating and monitoring.

For the type code, the ambient temperature range, the maximum surface temperature, the degree of protection of the front side and the temperature class of the equipment shall be taken from Table 1 of Annex 1.

The front side provides a degree of protection of at least IP65 according to IEC 60529.

Electrical data

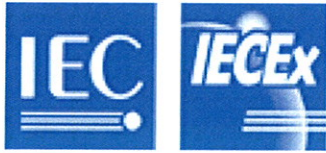
The electrical data of the supply and the input and output circuits shall be taken from Table 1 of Annex 1.

CONDITIONS OF CERTIFICATION: YES as shown below:

The front side of the Operator Panels provides a degree of protection of at least IP65. It shall be installed in a suitable enclosure providing a degree of protection of IP54, for gas and non-conductive dust and IP6X, for conductive dust, according to IEC 60529, taking into account the environmental conditions under which the equipment is used.

The equipment shall be installed in such a way that the risk of mechanical danger is low. When the temperature under rated conditions exceeds 70 °C at the cable or conduit entry point, or 80 °C at the branching point of the conductors, the temperature specification of the selected cable shall be in compliance with the actual measured temperature values.

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119V.



IECEX Certificate of Conformity

Certificate No: IECEx DEK 13.0085X

Issue No: 2

Date of Issue: 2014-05-28

Page 4 of 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Addition of Operator Panels HMI Comfort Type Model 6AV7863-3MA00-a and 6AV7863-4MA00-a to the range of Operator Panels.



IECEx Certificate of Conformity

Certificate No: IECEx DEK 13.0085X

Issue No: 2

Date of Issue: 2014-05-28

Page 5 of 5

Additional information:

Expanded inclination- temperature range for 7" to 12" devices if the following conditions are met:

The load at the USB ports does not exceed a total of 100 mA per USB port.
The +24 V DC connection of the PROFIBUS interface is not used.
The relative humidity during operation is 10% to 60%, without condensation.

The following mounting positions and temperatures are permitted under the requirements listed above:
Horizontal format without inclination at an ambient temperature of up to +55 °C.
Horizontal format with 40° inclination at an ambient temperature of up to +40 °C.

Annex:

[IECEx - Annex to CoC Annex 1 siemens.pdf](#)

**Annex 1 to Certificate of Conformity IECEx DEK 13.0085X, issue 2 / Testreport
NL/DEK/ExTR13.0089/02**

Table 1

Description	Type/MLFB No.	Temp. code	Ambient Range	Input Circuits	Output Circuits	Supply Volt.
TP 700 Comfort	6AV2 124-0GC01-a	T4	0...+50°C vert.	L+ max. 0,85A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
TP 700 Comfort (OEM-Design)	6AV2 124-5GC00-a	T4	0...+50°C vert.	L+ max. 0,85A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
TP 700 Comfort INOX	6AV2 124-0GC01-a	T4	0...+50°C vert.	L+ max. 0,85A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
TP 900 Comfort	6AV2 124-0JC01-a	T4	0...+50°C vert.	L+ max. 1,05A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
TP 900 Comfort (OEM-Design)	6AV2 124-5JC00-a	T4	0...+50°C vert.	L+ max. 1,05A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
TP 1200 Comfort	6AV2 124-0MC01-a	T4	0...+50°C vert.	L+ max. 1,15A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
KTP400 Comfort	6AV2 124-2DC01-a	T4	0...+50°C vert.	L+ max. 0,55A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
KTP400 Comfort (OEM-Design)	6AV2 124-5DC00-a	T4	0...+50°C vert.	L+ max. 0,55A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
KP 400 Comfort	6AV2 124-1DC01-a	T4	0...+50°C vert.	L+ max. 0,55A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
KP 700 Comfort	6AV2 124-1GC01-a	T4	0...+50°C vert.	L+ max. 0,85A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
KP 900 Comfort	6AV2 124-1JC01-a	T4	0...+50°C vert.	L+ max. 1,05A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
KP1200 Comfort	6AV2 124-1MC01-a	T4	0...+50°C vert.	L+ max. 1,15A	USB: 5V/max. 500mA DPSS: 5V/90mA, 24V/150mA	24Vdc
ITC1200	6AV6 646-1AA22-a	T4	0...+50°C vert.	L+ max. 1,15A	USB: 5V/max. 500mA	24Vdc
IFP 1900	6AV7 863-3MA00-a	T4	0...+45°C vert.	L+ max. 2,0A	USB: 5V/max. 500mA	24Vdc
IFP 2200	6AV7 863-4MA00-a	T4	0...+45°C vert.	L+ max. 2,5A	USB: 5V/max. 500mA	24Vdc

The Suffix –a denotes any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation etc.