

1st Supplement

to

EC - Type Examination Certificate

TÜV 14 ATEX 7606 X



Device: Klippon Small-Control-Station (KCS) Range Enclosures

Manufacturer: Weidmüller Interface GmbH & Co. KG
Address: Klingenbergstrasse 16, 32758 Detmold
Germany

Description of supplements and modifications:


(15) The following modifications are valid for this 1st Supplement

Standard basis:

EN 60079-0:2012/A11:2013; EN 60079-1:2007; EN 60079-7:2007; EN 60079-31:2014

Code for type of protection

 II 2 G Ex d e IIC T* Gb

 II 2 D Ex tb IIIC T*°C Db

15.1 Equipment and Type

Klippon Small-Control-Station (KCS) Range Enclosures

15.2 Description

The following changes have been assessed:

1. The switch actuators has been changed from certificate PTB 00 ATEX 3114U to CML 13ATEX3010U.
2. Updated revisions of documents "Notice to Installers" and "Safety Documentation".
3. Extension of ambient temperature ranges down to -55°C for equipment build according to this ammendment.
4. Updated Tables 2 and 3 to reflect the change in ambient temperature and IP rating information.

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There is no testing to be performed in this report, the Switch Actuator component certification has been revised and approved for operation in ambient temperatures between -55° to 70°C inclusive for all explosive atmosphere groups. The minimum ambient range for the equipment has therefore been standardised and the markings updated.

General product information

The Klippon Small-Control-Station (KCS) range enclosures are made of:

- Stainless steel (Klippon STB)
- Aluminium (Klippon K range); or
- Glass-fibre Reinforced Polyester (GRP)

They are populated with push button, lamps, switches, and potentiometers consisting of:

- Electrical elements (including lamps/switches and potentiometers) and
- Actuating elements (including push buttons, emergency stops and lamp module)

The assembled small control stations are suitable for:

- Hazardous gas areas - protection class IIC Ex d e (increased safety and flameproof components); or
- Hazardous dust areas - protection class IIIC Ex tb (protection by enclosure)

Cable glands and breather drains from different manufacturers can be mounted in the enclosure. The empty enclosures and the mounted parts are IECEx certified and approved separately by a notified body. For the low voltage values used the creepage and clearance distances exceed the minimum requirements. Additional terminals or circuits are not allowed.

15.3 Technical Data

The following table shows the temperature class, which is shown on the label:

Ex Code	Minimum Wire Size	Current Rating	Ambient Temperature Range	T Rating	Cable Thermal Class
Ex d e IIC	1.5mm ²	10A	-55C ≤ T _{amb} ≤ 40°C	T6	70
			-55C ≤ T _{amb} ≤ 55°C	T5	90
		16A	-55C ≤ T _{amb} ≤ 40°C	T5	90
			-55C ≤ T _{amb} ≤ 55°C	T4	105
	2.5mm ²	16A	-55C ≤ T _{amb} ≤ 40°C	T6	70
			-55C ≤ T _{amb} ≤ 55°C	T5	90
Ex tb IIIC	1.5mm ²	10A	-55C ≤ T _{amb} ≤ 40°C	T80°C	70
			-55C ≤ T _{amb} ≤ 55°C	T85°C	90
		16A	-55C ≤ T _{amb} ≤ 40°C	T85°C	90
			-55C ≤ T _{amb} ≤ 55°C	T105°C	105
	2.5mm ²	16A	-55C ≤ T _{amb} ≤ 40°C	T80°C	70
			-55C ≤ T _{amb} ≤ 55°C	T100°C	90

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Table 2
List of certified equipment/ components:

Device	Type	Marking	Certificate	IP Rating
Enclosures	Klippon CS STB 1 Klippon CS STB 2.1	II 2 G Ex e IIC TX Gb II 2 D Ex tb IIIC TX Db	IBExU07ATEX1148	IP66
	Klippon CS K41 Klippon CS K51	II 2 G Ex e IIC T4... T6 Gb II 2 D Ex tb IIIC T85°C... 135°C	IBExU12ATEX1145X	IP66
	Klippon CS POK 121209 Klippon CS POK 122209	II 2 G Ex e IIC T6... T5 Gb II 2 D Ex tb IIIC T85°C... 100°C	IBExU13ATEX1004X	IP66
Switch Actuators	05-0003-0007/**** to 05-0003-0021/****, 05-0003-0061/**** to 05-0003-0063/****, 05-0003-0076/**** 05-0003-0077/**** to 05-0003-0080/****	II 2 G Ex e IIC Gb II 2 D Ex tb IIIC Db	CML 13ATEX3010U	IP 65' or IP66'
Breather Drains	ACDP*0***** to ACDP*6*****	II 2 GD	Sira 09ATEX3321U	IP66
Switches	07-3321-****/****	II 2 G Ex d e IIC Gb	PTB 99 ATEX 1043 U	N/A
Lamps	07-3351-****/****	II 2 G Ex d e IIC Gb	PTB 97 ATEX 1064U	N/A
Control and Switching	07-3371-****/****	II 2 G Ex d e IIC	PTB 05 ATEX 1064U	N/A

Table 3

Note 1: These devices have been tested as per the requirements of IEC60529 in DE/PTB/ExTR08.0039/01

(16) **Test Report No.** 557 / Ex 7606.01 / 14

Parts of the device, which already fulfill the requirements for the category, were not approved and assessed by TÜV Rheinland Industrie Service.

The applicability and assembly of mechanical and electrical parts and components were assessed and approved by TÜV Rheinland Industrie Service with respect to the requirements of explosion protection.

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(17) **Special conditions for safe use**

Conditions of Manufacture:

1. The manufacturer will ensure that the IP rating of the enclosure, all actuators and all cable glands or breathers will be at least IP54 for Group IIC and IP6X for Group IIIC applications.
2. Only approved components shown in the ExTR or suitably certified breathers and cable glands to be used in the construction of the equipment.

Condition of Safe Use:

Refer to the table of temperature ratings for the minimum thermal class of the wiring required for the equipment.

(18) **Basic Safety and Health Requirements**

Covered by mentioned standards in the original certificate.

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2015-11-18

Dipl.-Ing. Andreas Maschke



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