EU Type Examination Certificate CML 16ATEX3009X Issue 2

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment Control Stations, Local Control Units and Disconnect Switches

3 Manufacturer Pepperl+Fuchs GmbH

4 Address Lilienthalstrasse 200, 68307
Mannheim, Germany

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012+A11:2013	EN 60079-1:2014	EN 60079-7:2015
EN 60079-11:2012	EN 60079-18:2015	EN 60079-28:2015
EN 60079-31:2014		

10 The equipment shall be marked with the following:

II 2 G D

Coding options for models within the range include:

Ex db eb IIC T* Gb	* T-class and assigned maximum surface temperature are dependent on the enclosure, the equipment fitted and the power dissipation, as well as the upper ambient temperature assigned.
Ex ib IIC T* Gb	
Ex db eb ib op pr IIC T* Gb	Note: Protection concept symbols and ambient range applied depend on the parts installed. Marking options are defined in the Description and the manufacturer's documents. The marking shall include the symbol 'mb' where previously certified parts include encapsulation as a protection concept; refer to conditions of manufacture.
Ex eb op pr IIC T* Gb	
Ex tb IIIC T* Db	

Ta= -50°C, -40°C,-25°C, -20°C or 0°C to +40°C or +55°C*

H M Amos MIET
Technical Manager

This certificate shall only be copied
in its entirety and without change
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11 Description

Control Stations

The Control Stations are a range of increased safety enclosures fitted with a selection of separately certified components. The Control Stations utilise the following separately certified enclosures:

Control Station	Enclosure	
	Material	Certification
XL***CS	XLS = Stainless Steel XLM = Mild Steel	CML 17ATEX3023U
FXL***CS	FXLS = Stainless Steel FXLM = Mild Steel	CML 17ATEX3023U
GL***CS	Antistatic Glass-fibre reinforced polyester	SIRA 00ATEX3028U
GR.CS*	Antistatic Glass-fibre reinforced polyester	CML 17ATEX3084U

Local Control Units

The Local Control Units utilise the following enclosures:

Local Control Unit	Enclosure	
	Material	Certification ATEX
LC*	LCS = Stainless Steel	CML 17ATEX3023U
	LCP = Antistatic Glass-fibre reinforced polyester	covered under this approval

Disconnect Switches

The DIS Switch Disconnectors and SAF Safety Switches utilise separately certified switch modules within GL/GR type GRP enclosures or FXL/XL/SL type steel enclosures to guarantee safe disconnection of machines from the mains power supply during cleaning, maintenance and repair.

All Control Stations and Local Control Units are offered in a range of sizes and may be fitted with an arrangement of separately certified control components. This includes push buttons, illuminated push buttons, LED modules, pilot lights, switch actuators, switch modules, potentiometer modules, disconnect switch modules, meter modules, panel meters' enclosure windows, terminals, isolation terminals and fibre optic splice trays.

Only items from the Pepperl+Fuchs approved range shall be fitted.

Before installation, the maximum power dissipation must be calculated in accordance with EN 60079-7, Annex E.2

The total Maximum Dissipation Power values have been assessed based on internal temperature rises of 5K, 10K and 15K to account for the limiting temperatures of the different devices that may be installed; the Maximum Dissipation Power values assigned for each enclosure size shall not be exceeded and are as follows:

XL***CS and FXL***CS Control Stations (XL and FXL enclosures)

XL and FXL Types									
	5 kΔT			10 kΔT			15 kΔT		
		T Class/Dust			T Class/Dust			T Class/Dust	
Enclosure Type (H/W/D mm)	P (W)	Ta +40°C	Ta +55°C	P (W)	Ta +40°C	Ta +55°C	P (W)	Ta +40°C	Ta +55°C
1 (229/152/145)	2.3	T6/T80°C	T5/T95°C	4.6	T6/T80°C	T4/T130°C	6.9	T5/T95°C	T4/T130°C
2 (260/260/165)	3.8	T6/T80°C	T5/T95°C	7.6	T6/T80°C	T4/T130°C	11.3	T5/T95°C	T4/T130°C
2D (260/260/215)	4.6	T6/T80°C	T5/T95°C	9.2	T6/T80°C	T4/T130°C	13.8	T5/T95°C	T4/T130°C
3 (306/306/165)	4.7	T6/T80°C	T5/T95°C	9.3	T6/T80°C	T4/T130°C	14.0	T5/T95°C	T4/T130°C
3D (306/306/215)	5.6	T6/T80°C	T5/T95°C	11.3	T6/T80°C	T4/T130°C	16.9	T5/T95°C	T4/T130°C
4 (380/260/165)	4.9	T6/T80°C	T5/T95°C	9.8	T6/T80°C	T4/T130°C	14.7	T5/T95°C	T4/T130°C
4D (380/260/215)	5.9	T6/T80°C	T5/T95°C	11.8	T6/T80°C	T4/T130°C	17.7	T5/T95°C	T4/T130°C
5 (458/382/165)	7.1	T6/T80°C	T5/T95°C	14.3	T6/T80°C	T4/T130°C	21.4	T5/T95°C	T4/T130°C
5D (458/382/215)	8.5	T6/T80°C	T5/T95°C	16.9	T6/T80°C	T4/T130°C	25.4	T5/T95°C	T4/T130°C
6 (480/480/165)	8.6	T6/T80°C	T5/T95°C	17.3	T6/T80°C	T4/T130°C	25.9	T5/T95°C	T4/T130°C
6D (480/480/215)	10.1	T6/T80°C	T5/T95°C	20.3	T6/T80°C	T4/T130°C	30.5	T5/T95°C	T4/T130°C
7 (500/350/165)	7.2	T6/T80°C	T5/T95°C	14.4	T6/T80°C	T4/T130°C	21.6	T5/T95°C	T4/T130°C
7D (500/350/215)	8.5	T6/T80°C	T5/T95°C	17.1	T6/T80°C	T4/T130°C	25.6	T5/T95°C	T4/T130°C
8 (620/450/165)	10.0	T6/T80°C	T5/T95°C	20.0	T6/T80°C	T4/T130°C	29.9	T5/T95°C	T4/T130°C
8D (620/450/215)	11.7	T6/T80°C	T5/T95°C	23.3	T6/T80°C	T4/T130°C	35.0	T5/T95°C	T4/T130°C
9 (762/508/165)	12.7	T6/T80°C	T5/T95°C	25.5	T6/T80°C	T4/T130°C	38.3	T5/T95°C	T4/T130°C
9D (762/508/215)	14.7	T6/T80°C	T5/T95°C	29.5	T6/T80°C	T4/T130°C	44.2	T5/T95°C	T4/T130°C
10 (914/610/215)	19.1	T6/T80°C	T5/T95°C	38.3	T6/T80°C	T4/T130°C	57.4	T5/T95°C	T4/T130°C
10D (914/610/315)	24.0	T6/T80°C	T5/T95°C	47.9	T6/T80°C	T4/T130°C	71.9	T5/T95°C	T4/T130°C
11 (1177/777/225)	28.3	T6/T80°C	T5/T95°C	56.6	T6/T80°C	T4/T130°C	85.0	T5/T95°C	T4/T130°C
11D (1177/777/315)	33.9	T6/T80°C	T5/T95°C	67.7	T6/T80°C	T4/T130°C	101.6	T5/T95°C	T4/T130°C

GL***CS Control Stations (GL enclosures)

GL Types									
	5 kΔT			10 kΔT			15 kΔT		
Enclosure Type (H/W/D mm)	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
5 (120/120/90)	1.7	T6/T80°C	T5/T95°C	3.5	T6/T80°C	T4/T130°C	5.2	T5/T95°C	T4/T130°C
6 (120/220/90)	2.6	T6/T80°C	T5/T95°C	5.3	T6/T80°C	T4/T130°C	7.9	T5/T95°C	T4/T130°C
7 (160/160/91)	2.5	T6/T80°C	T5/T95°C	5.1	T6/T80°C	T4/T130°C	7.6	T5/T95°C	T4/T130°C
8 (160/260/91)	3.6	T6/T80°C	T5/T95°C	7.1	T6/T80°C	T4/T130°C	10.7	T5/T95°C	T4/T130°C
9 (160/360/91)	4.6	T6/T80°C	T5/T95°C	9.2	T6/T80°C	T4/T130°C	13.8	T5/T95°C	T4/T130°C
10 (160/560/91)	6.6	T6/T80°C	T5/T95°C	13.3	T6/T80°C	T4/T130°C	19.9	T5/T95°C	T4/T130°C
11 (250/255/120)	5.6	T6/T80°C	T5/T95°C	11.1	T6/T80°C	T4/T130°C	16.7	T5/T95°C	T4/T130°C
11D (250/255/165)	6.9	T6/T80°C	T5/T95°C	13.9	T6/T80°C	T4/T130°C	20.8	T5/T95°C	T4/T130°C
12 (250/400/120)	7.7	T6/T80°C	T5/T95°C	15.4	T6/T80°C	T4/T130°C	23.1	T5/T95°C	T4/T130°C
13 (405/400/120)	10.7	T6/T80°C	T5/T95°C	21.4	T6/T80°C	T4/T130°C	32.1	T5/T95°C	T4/T130°C
14 (405/400/165)	12.9	T6/T80°C	T5/T95°C	25.8	T6/T80°C	T4/T130°C	38.7	T5/T95°C	T4/T130°C
14D (405/400/200)	14.6	T6/T80°C	T5/T95°C	29.2	T6/T80°C	T4/T130°C	43.8	T5/T95°C	T4/T130°C

GR.CS* Control Stations (GR enclosures)

GR.CS* Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
GR.10.10.07* (100/100/65)	1.1	T6/T80°C	T5/T95°C	2.3	T6/T80°C	T4/T135°C	3.4	T5/T95°C	T4/T135°C
GR.13.13.09* (130/130/85)	1.9	T6/T80°C	T5/T95°C	3.9	T6/T80°C	T4/T135°C	5.8	T5/T95°C	T4/T135°C
GR.13.18.09* (130/180/91.5)	2.5	T6/T80°C	T5/T95°C	5	T6/T80°C	T4/T135°C	7.6	T5/T95°C	T4/T135°C
GR.18.18.10* (180/180/104)	3.4	T6/T80°C	T5/T95°C	6.8	T6/T80°C	T4/T135°C	10.1	T5/T95°C	T4/T135°C
GR.18.24.10* (180/240/104)	4.1	T6/T80°C	T5/T95°C	8.2	T6/T80°C	T4/T135°C	12.3	T5/T95°C	T4/T135°C
GR.18.36.10* (180/360/104)	5.6	T6/T80°C	T5/T95°C	11.2	T6/T80°C	T4/T135°C	16.7	T5/T95°C	T4/T135°C

GR.CS* Types									
Enclosure Type (H/W/D mm)	5 kΔT			10 kΔT			15 kΔT		
	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
GR.18.36.17* (180/360/166.5)	7.7	T6/T80°C	T5/T95°C	15.4	T6/T80°C	T4/T135°C	23.1	T5/T95°C	T4/T135°C
GR.36.36.10* (360/360/104)	8.8	T6/T80°C	T5/T95°C	17.6	T6/T80°C	T4/T135°C	26.4	T5/T95°C	T4/T135°C
GR.36.36.17* (360/360/166.5)	11.6	T6/T80°C	T5/T95°C	23.3	T6/T80°C	T4/T135°C	34.9	T5/T95°C	T4/T135°C
GR.36.36.24* (360/360/241.5)	15	T6/T80°C	T5/T95°C	30.1	T6/T80°C	T4/T135°C	45.1	T5/T95°C	T4/T135°C
GR.48.60.24* (480/600/241.5)	25.5	T6/T80°C	T5/T95°C	51	T6/T80°C	T4/T135°C	76.5	T5/T95°C	T4/T135°C
GR.36.72.17* (360/720/166.5)	19.5	T6/T80°C	T5/T95°C	39	T6/T80°C	T4/T135°C	58.5	T5/T95°C	T4/T135°C
GR.36.72.24* (360/720/241.5)	24.6	T6/T80°C	T5/T95°C	49.2	T6/T80°C	T4/T135°C	73.8	T5/T95°C	T4/T135°C

LCS Local Control Unit

LCS Types									
	5 kΔT			10 kΔT			15 kΔT		
Enclosure Type (H/W/D mm)	P (W)	T Class/Dust		P (W)	T Class/Dust		P (W)	T Class/Dust	
		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C		Ta +40°C	Ta +55°C
LCS1 (96/110/84)	0.7	T6/T80°C	T5/T95°C	1.4	T6/T80°C	T4/T130°C	2.1	T5/T95°C	T4/T130°C
LCS2 / 7 (136/110/84)	0.9	T6/T80°C	T5/T95°C	1.8	T6/T80°C	T4/T130°C	2.7	T5/T95°C	T4/T130°C
LCS3 / 8 (216/110/84)	1.2	T6/T80°C	T5/T95°C	2.5	T6/T80°C	T4/T130°C	3.7	T5/T95°C	T4/T130°C
LCS4 / 9 (216/110/84)	1.2	T6/T80°C	T5/T95°C	2.5	T6/T80°C	T4/T130°C	3.7	T5/T95°C	T4/T130°C

LCP Local Control Unit

LCP Types									
	5 kΔT			10 kΔT			15 kΔT		
		T Class/Dust			T Class/Dust			T Class/Dust	
Enclosure Type (H/W/D mm)	P (W)	Ta +40°C	Ta +55°C	P (W)	Ta +40°C	Ta +55°C	P (W)	Ta +40°C	Ta +55°C
LCP1 (92/98/100)	1.4	T6/T80°C	T5/T95°C	2.8	T6/T80°C	T4/T130°C	4.3	T5/T95°C	T4/T130°C
LCP2 / 7 (202/98/100)	2.4	T6/T80°C	T5/T95°C	4.8	T6/T80°C	T4/T130°C	7.2	T5/T95°C	T4/T130°C
LCP3 / 8 (202/98/100)	2.4	T6/T80°C	T5/T95°C	4.8	T6/T80°C	T4/T130°C	7.2	T5/T95°C	T4/T130°C
LCP4 / 9 (202/98/100)	2.4	T6/T80°C	T5/T95°C	4.8	T6/T80°C	T4/T130°C	7.2	T5/T95°C	T4/T130°C

Variation 1

This variation introduces the following modifications:

i. To recognise the change in certificate number of the CFP Ex components and DIS disconnect switches, utilised as Ex Components in the certified equipment, from Sira 14ATEX1239U to CML 16ATEX3339U. The conditions of manufacture have been updated accordingly and a specific condition of use has been added

Variation 2

This variation introduces the following modifications:

i. To include an additional GR.CS* Control Station using GR.* Anti-static glass fibre reinforced polyester, Ex Component Certified enclosure.

ii. To include the option of using the GR.* Anti-static glass fibre reinforced polyester enclosure for the DIS Switch Disconnectors and SAF Safety Switches

iii. To update the construction of the XL***CS and FXL***CS Control Stations with a replacement certified Ex Component enclosure.

iv. To update all drawings to include the above modifications and clarify the construction and limitation of parts used.

v. The description and the 'Conditions of Manufacture' have been updated in line with the above changes

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	08 July 2016	R632A/00	Report for the prime certificate issue
1	13 July 2017	R1580A/00	Introduction of Variation 1
2	04 July 2018	R11619A/00	Introduction of Variation 2

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

13.1 Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

13.2 The manufacturer shall fit only the certified Ex parts listed in 16-0985SR-04E (sheets 1 to 16) in accordance with the certification documentation and the manufacturer's instructions. All Special Conditions of Certification/ Special Conditions for Safe Use/ Schedule of Limitations must be satisfied.

When the use of alternate Ex parts are permitted, they must be to the latest standard and installed in accordance with the certified scheduled drawings, applicable ratings and ambient and service temperature ranges, and, all Special Conditions of Certification/ Special Conditions for Safe Use/ Schedule of Limitations.

13.3 The power rating marking on the label will be allocated in accordance with the table detailed in the description on this certificate. The total dissipated power for each enclosure shall be calculated in accordance with EN 60079-7 Annex E, and the methods detailed in the Schedule Drawings. It shall not exceed the maximum power rating defined in this certification. Additionally, the units shall be marked with the maximum voltage and current as limited by the devices fitted.

13.4 The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the Special Conditions of Certification/ Special Conditions for Safe Use. The manufacturer must provide the end user the operation and maintenance instructions for all Ex parts that are installed.

13.5 All non-intrinsically safe circuits must be subjected to a dielectric strength test in accordance with EN 60079-7 Clause 6.1. Alternatively, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100 ms.

13.6 Each intrinsically safe circuit must be subjected to a dielectric strength test in accordance with EN 60079-11 Clause 6.3.13.

13.7 Tapped or clearance hole entries may be provided through the side walls or the rear of the enclosures, as permitted by the individual enclosure certification, for the use of suitably certified, Ex e IIC Gb/Ex tb IIIC Db (minimum) entry devices suitable for range as marked.

13.8 The warning label on drawing 16-0985SR-04 sheet 14 must be installed when:

- The enclosure is painted or has labels fitted that do not meet the requirements of EN 60079-0, clause 7.4.1.
- Type 8003/ 8029 handles are fitted.
- Type 8032 /8007 Inspection window are fitted.

13.9 The lower ambient of the equipment must be limited by the enclosure type and components fitted.

13.10 At ambient below -40°C only a metallic label shall be fitted.

13.11 When enclosures are fitted with neoprene gaskets, their permitted ambient temperature range is limited to -40°C to +55°C.

13.12 Products shall only be manufactured at production sites that have a Quality Assurance Notification that covers all Protection Concepts being incorporated

13.13 Enclosure types XL/FXL*11, XL/FXL*11D or XL/FXL*11S are limited to IP 54 and are not permitted for use in dust applications. The marking shall reflect this.

13.14 When enclosures are fitted with flange adaptors as permitted by component certificate CML 17ATEX3023U, they must be supplied with instillation instructions DOCT-5152.

13.15 The Ex ib control devices and indicator lights (TUV 08ATEX7685U) are only permitted for ATEX and installed in the XL range, FXL range or LCS range.

13.16 The marking shall include the symbol ‘mb’ where previously certified parts include encapsulation as a protection concept (parts covered under certificate CML 16ATEX3339U).

14 Special Conditions for Safe Use (Conditions of Certification)

The following conditions relate to safe installation and/or use of the equipment.

14.1 The user/installer shall install the range of Control Stations and Local Control Units and shall comply with any restrictions or special conditions for safe use that are applicable to the certified equipment or components that are installed in the enclosures.

14.2 Equipment fitted with warning ‘POTENTIAL ELECTROSTATIC CHARGING HAZARD’ shall only be cleaned with a damp cloth to prevent the risk of electrostatic discharge.

14.3 Repair of any flameproof joints must be made in compliance with the structural specification provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN 60079-1.

14.4 Any connected optical bundles must be supported within the equipment using supplied mounting clips to prevent strain on the individual fibres as they enter the component.

14.5 When the equipment is fitted with a flange adaptor, it must be installed in line with manufacturer’s instructions DOCT-5152.

14.6 When Ex ia panel meters (certificates ITS 14ATEX28077X and ITS 15ATEX28365X) are fitted, they must be supplied by an appropriately rated Zener barrier or galvanic isolator located in a safe area.

14.7 When Ex ib illuminated push button or pilot lights (TUV 08ATEX7685U) are fitted, the enclosures shall only be fitted in low impact risk areas and additional protection from permanent UV exposure is required.

14.8 When Ex ib push button, switch selector or key operated switch selectors (TUV 08ATEX7685U) are fitted, the enclosures shall only be fitted in low impact risk areas.

14.9 When non-light transmitting CFP.* series operators (CML 16ATEX3339U) are fitted, the enclosures shall only be fitted in low impact risk areas.

Certificate Annex

Certificate Number	CML 16ATEX3009X
Equipment	Control Stations and Local Control Units
Manufacturer	Pepperl+Fuchs GmbH

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved Date	Title
16-0985SR-04C	1 of 15	21/11/13	08 Jul 2016	Control Stations general arrangement
16-0985SR-04C	2 of 15	21/11/13	08 Jul 2016	Control Stations and Local Control Units - dissipation table (steel enclosures)
16-0985SR-04C	3 of 15	21/11/13	08 Jul 2016	Control Stations and Local Control Units - dissipation table (GRP)
16-0985SR-04C	4 of 15	21/02/13	08 Jul 2016	Control Stations and Local Control Units - Ex e control functions details and calculations
16-0985SR-04C	5 of 15	21/02/13	08 Jul 2016	Control Stations - Ex ib control functions details
16-0985SR-04C	6 of 15	21/02/13	08 Jul 2016	Control Stations - MFT terminal detail
16-0985SR-04C	7 of 15	21/11/13	08 Jul 2016	Local Control Units - general arrangement
16-0985SR-04C	8 of 15	21/11/13	08 Jul 2016	LCP type enclosure
16-0985SR-04C	9 of 15	29/01/15	08 Jul 2016	Control Stations - FO Splice Tray detail
16-0985SR-04C	10 of 15	29/01/15	08 Jul 2016	Control Stations – DIS disconnect switch detail
16-0985SR-04C	11 of 15	29/01/15	08 Jul 2016	Control Stations – 8007/8032 viewing detail
16-0985SR-04C	12 of 15	25/03/15	08 Jul 2016	Control Stations and Local Control units – additional terminals
16-0985SR-04C	13 of 15	29/01/15	08 Jul 2016	Control Stations – Lid hole restrictions
16-0985SR-04C	14 of 15	29/01/15	08 Jul 2016	Label/Paint exceeding ESD limitations
16-0985SR-04C	15 of 15	29/01/15	08 Jul 2016	Control Station –Robust panel meter enclosure
16-0985SR-10C	1 of 4	21/02/13	08 Jul 2016	Control Stations - type code definition
16-0985SR-10C	2 of 4	21/11/13	08 Jul 2016	Control Stations - certification label
16-0985SR-10C	3 of 4	21/11/13	08 Jul 2016	Local Control Units - type code definition
16-0985SR-10C	4 of 4	21/11/13	08 Jul 2016	Local Control Units - certification label

Certificate Annex

Certificate Number CML 16ATEX3009X

Equipment Control Stations and Local Control Units

Manufacturer Pepperl+Fuchs GmbH

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
16-0985SR-04D	1 of 16	D	13 July 2017	Control Stations general arrangement
16-0985SR-04D	2 of 16	D	13 July 2017	Control Stations and Local Control Units - dissipation table (steel enclosures)
16-0985SR-04D	3 of 16	D	13 July 2017	Control Stations and Local Control Units - dissipation table (GRP)
16-0985SR-04D	4 of 16	D	13 July 2017	Control Stations and Local Control Units - Ex e control functions details and calculations
16-0985SR-04D	5 of 16	D	13 July 2017	Control Stations - Ex ib control functions details
16-0985SR-04D	6 of 16	D	13 July 2017	Control Stations - MFT terminal detail
16-0985SR-04D	7 of 16	D	13 July 2017	Local Control Units - general arrangement
16-0985SR-04D	8 of 16	D	13 July 2017	LCP type enclosure
16-0985SR-04D	9 of 16	D	13 July 2017	Control Stations - FO Splice Tray detail
16-0985SR-04D	10 of 16	D	13 July 2017	Control Stations – DIS disconnect switch detail
16-0985SR-04D	11 of 16	D	13 July 2017	Control Stations – 8007/8032 viewing detail
16-0985SR-04D	12 of 16	D	13 July 2017	Control Stations and Local Control units – additional terminals
16-0985SR-04D	13 of 16	D	13 July 2017	Control Stations – Lid hole restrictions
16-0985SR-04D	14 of 16	D	13 July 2017	Label/Paint exceeding ESD limitations
16-0985SR-04D	15 of 16	D	13 July 2017	Control Station –Robust panel meter enclosure
16-0985SR-04D	16 of 16	D	13 July 2017	Control Stations – CFP buzzers & flashing buzzers
16-0985SR-10D	1 of 4	D	13 July 2017	Control Stations - type code definition
16-0985SR-10D	2 of 4	D	13 July 2017	Control Stations - certification label
16-0985SR-10D	3 of 4	D	13 July 2017	Local Control Units - type code definition
16-0985SR-10D	4 of 4	D	13 July 2017	Local Control Units - certification label

Certificate Annex

Certificate Number CML 16ATEX3009X

Equipment Control Stations and Local Control Units

Manufacturer Pepperl+Fuchs GmbH

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
16-0985SR-04E	1 of 16	E	04 July 2018	Control Stations general arrangement
16-0985SR-04E	2 of 16	E	04 July 2018	Control Stations and Local Control Units – dissipation table (steel enclosures)
16-0985SR-04E	3 of 16	E	04 July 2018	Control Stations and Local Control Units – dissipation table (GRP)
16-0985SR-04E	4 of 16	E	04 July 2018	Control Stations and Local Control Units – Ex e control functions details and calculations
16-0985SR-04E	5 of 16	E	04 July 2018	Control Stations – Ex ib control functions details
16-0985SR-04E	6 of 16	E	04 July 2018	Control Stations - MFT terminal detail
16-0985SR-04E	7 of 16	E	04 July 2018	Local Control Units - general arrangement
16-0985SR-04E	8 of 16	E	04 July 2018	LCP type enclosure
16-0985SR-04E	9 of 16	E	04 July 2018	Control Stations - FO Splice Tray detail
16-0985SR-04E	10 of 16	E	04 July 2018	Control Stations – DIS disconnect switch detail
16-0985SR-04E	11 of 16	E	04 July 2018	Control Stations – 8007/8032 viewing detail
16-0985SR-04E	12 of 16	E	04 July 2018	Control Stations and Local Control units – additional terminals
16-0985SR-04E	13 of 16	E	04 July 2018	Control Stations – Lid hole restrictions
16-0985SR-04E	14 of 16	E	04 July 2018	Label/Paint exceeding ESD limitations
16-0985SR-04E	15 of 16	E	04 July 2018	Control Station –Robust panel meter enclosure
16-0985SR-04E	16 of 16	E	04 July 2018	Control Stations – CFP buzzers & flashing buzzers
16-0985SR-10E	1 of 4	E	04 July 2018	Control Stations - type code definition
16-0985SR-10E	2 of 4	E	04 July 2018	Control Stations - certification label
16-0985SR-10E	3 of 4	E	04 July 2018	Local Control Units - type code definition
16-0985SR-10E	4 of 4	E	04 July 2018	Local Control Units - certification label