

GOVERNMENT APPROVED TEST LABORATORY
IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: **21 Jan 2019**
*Expiry date: **21 Jan 2022**
Page 1 of 3
Issue: 0

Ex – Type Examination Certificate

Certificate Number: **S-XPL/19.0041 X**
Equipment: **Panel PC**
Model / Type: **type CPX27**-**** or Panel type CPX29**-******
Applicant: **Beckhoff Automation (Pty) Ltd**
7 Ateljee Street
Randpark Ridge
Randburg, Gauteng
2169, South Africa
Manufacturer: **Beckhoff Automation GmbH & Co.KG**
Serial No: All serial numbers imported between issued- and expire date and all serial numbers covered by a valid report or acceptable product certification mark.

Supplied by
Beckhoff Automation (Pty) Ltd
Identified by Inspection Authority number
S-XPL/19.0041 X

And as described in the Explolabs file number **XPL/20209/19.0041** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

- SANS 60079-0: 2012 Ed 5** Explosive atmospheres Part 0: Equipment — General requirements
- IEC 60079-0: 2011 Ed 6** "Electrical apparatus for explosive gas atmospheres, Part 7: Increased safety 'e'"
- IEC/SANS 60079-7: 2015** Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t"
- SANS 60079-31: 2014 Ed 2**
- IEC 60079-31: 2013 Ed 2**

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	T4 (135°C)
Enhanced	Dc Group III		Equipment remains functioning in zone 22	T135°C

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) * - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

1. GENERAL

The marking of the Panel PC shall include the following:

Ex ec IIC T4 Gc

Ex tc IIIC T135°C Dc

Description:

The built-in Panel PC type CPX27**-**** as well as the Panel type CPX29**-**** are developed for the use in hazardous areas requiring EPL Gc and Dc.

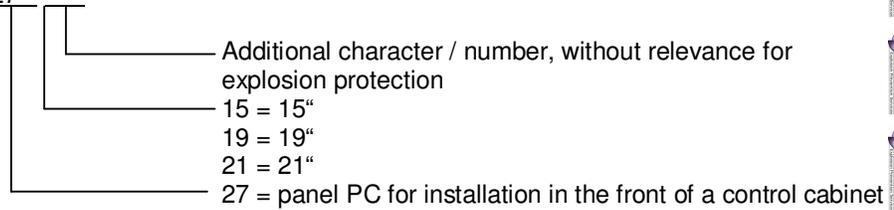
They are designed for installation in the front of a control cabinet.

All connections to the panel are realized by plugs and sockets installed within this cabinet.

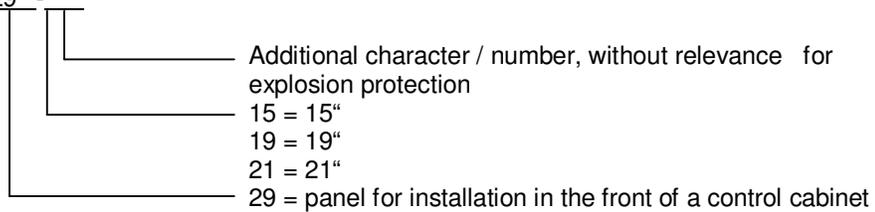
Subject and type:

Subject and type:

Panel PC type CPX27**-****



Panel type CPX29**-****



Parameters:

Electrical data

Supply	DC	24	V
Max. power consumption			
Type CPX2715-****		25	W
Type CPX2719-****		32	W
Type CPX2721-****		40	W
Type CPX2915-****		20	W
Type CPX2919-****		25	W
Type CPX2921-****		35	W

Thermal data

Permitted ambient temperature range	0 up to +55 °C
Temperature class	T4
Maximum surface temperature T	135 °C

Based on the following documentation: IECEx BVS 17.0102X Issue No.: 0

2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE (denoted by "X" after certificate number)

The panel shall be built in the wall of a control cabinet fulfilling all relevant clauses of IEC 60079-0, IEC 60079-7 and IEC 60079-31.

The panel itself fulfills all mechanical requirements according to IEC 60079-0 and the degrees of protection IP54 resp. IP6X according to IEC 60529 if mounted according to the user's manual.

The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60991-1.

Transient protection shall be provided that is set at a level not exceeding 119 V.

The panel shall not be exposed to direct sunlight.

The panel shall only be mounted vertically in landscape format.

4. SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number)

None.

5. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

6. MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Beckhoff Automation (Pty) Ltd
Manufacturer : Beckhoff Automation GmbH & Co.KG
Equipment : Panel PC
Model/Type : type CPX27**-**** or Panel type CPX29**-****
Serial No. : ---
Ex Rating : Ex ec IIC T4 Gc
 Ex tc IIIC T135°C Dc
IA Certificate No : S-XPL/19.0041 X

Responsible Testing Officer:**D Maree****Testing Officer****EXPLOLABS EXPLOSION PREVENTION SERVICES**

This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd