



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 BKI 11.0004X Issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: 2011-07-06 Page 1 of 3

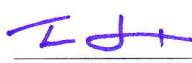
Applicant: NIVELCO Process Control Co.
H-1043 Budapest, Dugonics utca 11.
Hungary
Hungary

Electrical Apparatus: Universal display and controller unit
Optional accessory: MULTICONT P**2** Ex

Type of Protection: General requirements, Intrinsic safety

Marking: [Ex ia Ga] IIB
-20 °C ≤ Tamb ≤ +50 °C

Approved for issue on behalf of the IECEx Certification Body: János Fejes
Position: managing director

Signature: 
(for printed version)

Date: 2011-07-06

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.

Certificate issued by:

Testing Station for Explosion Proof Equipment
H 1037 BUDAPEST
MIKOVINY S.u. 2-4
Hungary



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Manufacturer: NIVELCO Process Control Co.
H-1043 Budapest, Dugonics utca 11.
Hungary
Hungary

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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5
IEC 60079-26 : 2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
Edition: 2

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:

[HU/BKI/ExTR11.0004/00](#)

Quality Assessment Report:



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The **MULTICONT P**2** Ex** is a universal process controller and display device suitable for supply 2-wire transmitters installed in hazardous area with intrinsic safety protection and suitable for displaying the measurement data of the transmitters on its graphic display. Connection with the transmitters is performed with HART communication interface. The device is an associated apparatus that can be installed and operated only outside of the hazardous area.

See details in addendum to IECEx BKI11.0004X.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range: -20°C ... +50°C.

Annexe: Addendum to IECEx BKI 11.0004X.pdf

1. Description

The **MULTICONT P**-2**-* Ex** is a universal process controller and display device suitable for supply 2-wire transmitters installed in hazardous area with intrinsic safety protection and suitable for displaying the measurement data of the transmitters on its graphic display. Connection with the transmitters is performed with HART communication interface. The device is an associated apparatus that can be installed and operated only outside of the hazardous area. Optionally it can include max. 2 pieces of 4...20mA programmable analogue outputs, max. 5 pieces of programmable relays and one USER RS485 interface for another controller device which are installed outside of the hazardous area. **MULTICONT PR*-2**-* Ex** units include also a MODULE RS485 interface provide to expand the system with (separate wall mountable) Universal Interface Modules (UIM-s) installed outside of the hazardous area. This interface is not included in the **MULTICONT PE*-2**-* Ex** type instruments. The 4...20mA analogue outputs are galvanically isolated (also isolated from each other) and the USER and MODULE RS485 interfaces are galvanically isolated (also isolated from each other).

2. Type assortment

MultiCONT P * * - 2 * * - * Ex †

Expansion	Code	Enclosure	Code	Input	Code	Output	Code	Power supply	Code
Standard (expandable)	R	IP65 wall enclosure	W	For 1 HART unit	1	Only display	0	85...255 V AC	1
Not expandable	E	IP65 wall enclosure + transparent cover	C	For 2 HART units	2	1 relay	1	24 V AC/DC	2
		IP65 wall enclosure + transparent cover + logger	D	For 4 HART units	4	2 relays	2	85...255 V AC Ex	5
						3 relays	3	24 V AC/DC Ex	6
						4 relays	4		
						5 relays	D		
						1x 4-20mA Analogue output	F		
						1 relay + 1x 4-20mA Analogue output	5		
						2 relays + 1x 4-20mA Analogue output	6		
						3 relays + 1x 4-20mA Analogue output	7		
						4 relays + 1x 4-20mA Analogue output	8		
						2x 4-20mA Analogue outputs	G		
						1 relay + 2x 4-20mA Analogue outputs	H		
						2 relays + 2x 4-20mA Analogue outputs	J		
						3 relays + 2x 4-20mA Analogue outputs	K		
						4 relays + 2x 4-20mA Analogue outputs	9		
						RS 485 interface	A		
						1 relay + RS 485 interface	L		
						2 relays + RS 485 interface	M		
						3 relays + RS 485 interface	N		
						4 relays + RS 485 interface	P		
						5 relays + RS 485 interface	E		
						1x 4-20mA Analogue output + RS485 interface	B		
						1 relay + 1x 4-20mA Analogue output + RS485 interface	R		
						2 relays + 1x 4-20mA Analogue output + RS485 interface	C		
						3 relays + 1x 4-20mA Analogue output + RS485 interface	S		
						4 relays + 1x 4-20mA Analogue output + RS485 interface	T		
						2x 4-20mA + RS485 interface	U		
						1 relay + 2x 4-20mA Analogue outputs + RS485 interface	V		
						2 relays + 2x 4-20mA Analogue outputs + RS485 interface	W		
						3 relays + 2x 4-20mA Analogue outputs + RS485 interface	X		
						4 relays + 2x 4-20mA Analogue output + RS485 interface	Y		



ADDENDUM TO IECEx CERTIFICATE OF CONFORMITY

IECEx BKI 11.0004 X

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3 Electrical data

Power: MultiCONT P**-2**-5 Ex: 85...255 V AC 50/60 Hz (12 VA);
MultiCONT P**-2**-6 Ex: 10,5...40 V DC (11 W);
10,5...28 V AC 50/60Hz (12 VA)

Signal output: max. 2 pieces of 4...20mA programmable analogue outputs,
max. 5 pieces of programmable relays,
one USER RS485 interface

4 Ambient temperature range

Ambient temperature range: -20°C ... +50°C.

5 Ingress protection

The enclosure provides a degree of protection IP 65 as per IEC 60529.

Special conditions for safe use

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Drawings

Title:	Drawing No.:	Rev. Level:	Date:
Technical drawings			
Ex A-card parts placement drawing	PRW-210-5M-200-0X	2.	2011.04.12.
Ex T-card parts placement drawing	PRW-110-6M-220-0X	0.	2011.04.18.
Ex Z-card parts placement drawing	PRW-210-5M-251-0X	1.	2011.04.18.
Ex V-card parts placement drawing	PRW-110-5M-220-0X	0.	2011.03.02.
Ex A-PCB artwork L1	PRW-210-5M-090-02	0.	2011.07.01.
Ex A-PCB artwork L2	PRW-210-5M-090-02	0.	2011.07.01.
Ex T-PCB artwork	PRW-110-6M-090-01	0.	2011.03.10.
Ex Z-PCB artwork	PRW-210-5M-090-04	0.	2011.04.20.
Ex V-PCB artwork	PRW-110-050-090-03	0.	2011.04.18.
Ex PRW-200 assembly drawing	PRW-110-5I-000-0X	0.	2011.04.21.
NTPE20090 assembly drawing	PRW-110-6M-221-0X	0.	2011.06.21.
NTPE20080 assembly drawing	PRW-110-5M-221-0X	0.	2011.06.21.
Ex Zener barrier assembly drawing	PRW-110-5M-250-0X	0.	2011.04.12.
Ex Separator plate	PRW-110-5M-000-01	0.	2011.04.12.
Fuse sticker	PRW-110-1M-050-04	0.	2011.04.12.
Ex label (Ex ia)	PRW-110-5M-050-03	0.	2011.04.12.
Ex Wiring label	PRW-110-5M-050-02	0.	2011.04.18.
Ex Data label	PRW-110-5M-050-0L	0.	2011.04.21.
Parts lists			
A-card Ex parts list	PRW-210-5M-200-0X	1.	2011.04.11.
T-card Ex parts list	PRW-110-6M-220-0X	3.	2011.04.11.
Z-card Ex parts list	PRW-210-5M-251-0X	1.	2011.04.11.
V-card Ex parts list	PRW-110-5M-220-0X	2.	2011.04.11.
Circuit Diagrams			
Ex A-card schematic circuit diagram	PRW-210-5M-200-0X	1.	2011.04.11.
Ex T-card schematic circuit diagram	PRW-110-6M-220-0X	3.	2011.03.10.
Ex Z-card schematic circuit diagram	PRW-210-5M-251-0X	1.	2011.04.11.
Ex V-card schematic circuit diagram	PRW-110-5M-220-0X	2.	2011.03.10.