

1. EC-TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective System Intended for use in Potentially explosive atmospheres

Directive 94/9/EC

3. Reference: VTT 14 ATEX 055X

4. Equipment: Level Controller

Certified types: **POP-22 EXI** 

5. Manufactured by: Labkotec Oy

6. Address: Myllyhaantie 6

FI-33960 PIRKKALA

Finland

7. This equipment or protective system and any acceptable variations thereto is specified in the schedule and possible supplement(s) to this Certificate and the documents therein referred to.

8. VTT, notified body number 0537, in accordance with Article 9 of the Council Directive 94/9/EC of March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive

The examination and test results are recorded in confidential report no. VTT-S-03798-14.

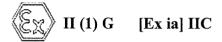
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with the standards:

EN 60079-0 (2012) EN 60079-11 (2012)





- 10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. This certificate does not cover these.
- 12. The marking of the equipment or protective system shall include the following:



Espoo, 19.9.2014

VTT Expert Services Ltd

Marti Linele

Martti Siirola

Senior Expert

Kari Koskela

Expert



13. Schedule

## 14. EC-TYPE EXAMINATION CERTIFICATE VTT 14 ATEX 055X

## 15. <u>Description of Equipment</u>

Associated apparatus POP-22 EXI is intended to be installed in to safe area only. The device is intended to be connected to Gas Group IIA, IIB or IIC level sensor in Zone 0. The device is to be connected to single capacitive Labkotec 2W or 3W level sensor, or alternatively to other single 4-20 mA current signal device e.q. pressure transmitter. Two output relays (potential free relay contact outputs 250 V, 5 A, 100 VA) are intended for control devices installed in safe area. The device is normally used to indicate surface level locally at safe area. There is a LCD display and a LED column display for indication. Functions are controlled with push buttons. The additional 4... 20 mA current output from the CPU shall not be connected to I.S. circuit. The device is supplied from the mains voltage 230 VAC ( $U_m = 253$  V r.m.s.).

## Electrical data:

Um = 253 V r.m.s.

The maximum values of the intrinsically safe output values are:

Uo = 26.3 V Io = 86 mA Po = 567 mW

Maximum external capacitance and inductance values and Lo/Ro ratio according to Gas Groups:

Gas Group	Co	Lo	Lo/Ro
IIC	95 nF	4 mH	$62.5 \mu H/\Omega$
IIB	738 nF	14 mH	251 μΗ/Ω
IIA	2.508 µF	27 mH	502 μΗ/Ω

## Documents:

Doc No. and Rev.:	Title:	Date:
XA10072_s	POP-22 EXI Functional description	2014-09-05
XB10069Ce	POP-22 EXI Level Controller power board schematic diagram	2013-10-13
XC10070Cs	POP-22 EXI Power board part list	2014-08-08
XK10070Be	POP-22 EXI Power board component layout (silk screen)	2013-06-11
XK10071Be	POP-22 EXI Power board PCB layout	2013-06-11
XK10078_s	POP-22 EXI Marking label	2014-09-04
XK10079_s	POP-22 EXI Assembly description and main dimensions	2014-01-21
XC10079As	POP-22 EXI Assembly, part list	2014-08-06
XK10009As	POP-22 EXI mechanical partitioning parts	1997-07-30

16. Report No.

VTT-S-03798-14.



- 17. Special conditions for safe use:
  - The allowed ambient temperature is Tamb -30 °C ... +50 °C.
- 18. <u>Essential Health and Safety Requirements</u>

Met by compliance with the standards referred in point 9.

Espoo, 19.9.2014

VTT Expert Services Ltd

Martti Siirola Senior Expert

Kari Koskela Expert