



1. **EU-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use
in Potentially explosive atmospheres
Directive 2014/34/EU**

3. Reference: **VTT 16 ATEX 046X**

4. Equipment: **Local control panel for valve controller**

Certified type: **LTB91H**

5. Applicant: **Metso Flow Control Oy
Vanha Porvoontie 229
FI-01380 Vantaa
Finland**

6. Manufacturing locations:

**Metso Flow Control Oy
Vanha Porvoontie 229
FI-01380 Vantaa
Finland**

or

**Scanfil OÜ
Vana Sauga 40
EE-80010 Pärnu
Estonia**

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 Expert Services Ltd, notified body number 0537, in accordance with Article 21 of the Directive 2014/34/EU of February 2014, 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-01819-17.

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.
11. This EU-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. 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:



II 2 G

Ex ia IIC T6...T4 Gb

Espoo, 5.4.2017
VTT Expert Services Ltd

Martti Siirola
Senior Expert

Kari Koskela
Expert



Certificate without signatures shall not be valid

This certificate, including the schedule, may only be reproduced in its entirety and without change.

13. **Schedule**

14. **EU-TYPE EXAMINATION CERTIFICATE VTT 16 ATEX 046X**

15. Description of Equipment:

Local control panel LTB91H is intended to be used with Metso Flow Control ND9000H_P model valve controller. The LTB91H incorporates PST start button (off-mom.) for initiating partial stroke test function of the controller and screw connectors for connection of Exi-barrier and ND9000H_P position transmitter (PT) interface.

Electrical data:

Ui = 28 V

Ii = 120 mA

Pi = 1000 mW

(Ci and Li negligible)

Documents:

Doc.No.	Document Title	Issue	Date
F77118	Control Unit LTB91_ (Assy + parts)	-	03.10.2016
DOO000003	Parts list, BAT_02 PCBA	A	22.09.2016
	BAT_02 Schematic	02	05.09.2016
	BAT_02 Assembly drawing top	02	05.09.2016
	LTB91H PCB Assembly Instructions	1.1	22.09.2016
	PCB Specification	1.0	07.09.2016
	BAT_02 Gerber	02	07.09.2016
F78052	Marking Label	0	29.03.2017

16. Report No.

VTT-S-01819-17

17. Special conditions for safe use:

The allowed ambient temperature ranges are:

T6: -53 °C ... +50 °C

T5: -53 °C ... +65 °C

T4: -53 °C ... +80 °C

To avoid ignition hazard the aluminium enclosure shall be protected from impacts and friction.

18. Essential Health and Safety Requirements:

Met by compliance with the standards referred in point 9.

Espoo, 5.4.2017
VTT Expert Services Ltd



Martti Siirola
Senior Expert



Kari Koskela
Expert



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