



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

3. Reference: **VTT 11 ATEX 075X**

4. Equipment:
Certified type: **Product identification tag
PRID tag**

5. Manufactured by: **Optolevel Oy**
6. Address: **Puomikatu 3
FI-37150 NOKIA
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 Expert Services Ltd, 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-08261-11.

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

EN 60079-0 (2009)

EN 60079-11 (2007)

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 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:



II 2 G Ex ia IIB T4 Gb

Espoo, 23.11.2011, VTT Expert Services Ltd

Martti Siirola
Senior Expert

Kari Koskela
Technical Expert



13. **Schedule**

14. **EC-TYPE EXAMINATION CERTIFICATE VTT 11 ATEX 075X**

15. Description of Equipment:

PRID tag is used as a part of product identification system in tank trucks. Optolevel PRID tag shall be connected to Ex-certified product identification device. The aluminium enclosure of the tag is earthed via tank pipe.

Electrical data

The maximum values of the intrinsically safe input values are:

U_i = 15 V I_i = 300 mA P_i = 1,1 W C_i = 600 nF L_i = 10 μH

Documents:

TITLE:	DATE:	REVISION:
PRID tag safety description	23.11.2011	Rev. V4.1
PRID tag schematic	14.10.2011	Rev. 1
PRIDtag.PrjPcb component list	22.11.2011	-

16. Report No. VTT-S-08261-11

17. Special conditions for safe use:

1. The allowed ambient temperature range for the unit is $-40\text{ °C} \leq T_{amb} \leq +50\text{ °C}$.
2. The certified types do not comply with the dielectric strength requirement for isolation from earth. Instructions shall include necessary information regarding the correct installation.
3. The certified type shall be connected according to manufacturer's instructions.

18. Essential Health and Safety Requirements:


Met by compliance with the standards referred in point 9.

Espoo, 23.11.2011

VTT Expert Services Ltd



Martti Siirola
Senior Expert



Kari Koskela
Technical Expert





1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

3. Reference: **VTT 11 ATEX 076X**
4. Equipment: **Overfill prevention tag for liquid fuel**
Certified type: **OFP tag**
5. Manufactured by: **Optolevel Oy**
6. Address: **Puomikatu 3
FI-37150 NOKIA
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 Expert Services Ltd, 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-08261-11.

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

EN 60079-0 (2009)

EN 60079-11 (2007)

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 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:



II 2 G Ex ia IIB T4 Gb

Espoo, 23.11.2011, VTT Expert Services Ltd

Martti Siirola
Senior Expert

Kari Koskela
Technical Expert



13. **Schedule**

14. **EC-TYPE EXAMINATION CERTIFICATE VTT 11 ATEX 076X**

15. Description of Equipment:

OFP overfill prevention tag is used in product identification system for tank trucks. OFP tag shall be connected to Ex-certified overfill prevention amplifiers.

Electrical data

The maximum values of the intrinsically safe input values are:

U_i = 25 V I_i = 165 mA P_i = 1 W C_i and L_i = negligibly low

Documents:

TITLE:	DATE:	REVISION:
OFP tag safety description	23.11.2011	V1.4
PRID ofp tag schematic	8.10.2011	3
ofptag_v3.SchDoc component list	-	V3

16. Report No. VTT-S-08261-11

17. Special conditions for safe use:

1. The allowed ambient temperature range for the unit is $-40\text{ °C} \leq T_{amb} \leq +50\text{ °C}$.
2. The certified type shall be connected according to manufacturer's instructions

18. Essential Health and Safety Requirements:

Met by compliance with the standards referred in point 9.

Espoo, 23.11.2011

VTT Expert Services Ltd



Martti Siirola
Senior Expert



Kari Koskela
Technical Expert

