

[1] EC-TYPE EXAMINATION CERTIFICATE

**[2] Equipment or Protected System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: Nemko 03ATEX1504 Issue 2

[4] Equipment or Protective System: Batteryless Telephone unit
[5] Applicant/ Manufacturer: Jotron Phontech AS
[6] Address: Bromsveien 19
3183 HORTEN
NORWAY

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 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 systems 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. 157583

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

CENELEC EN 60079-0: 2009 and CENELEC 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. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

**II 2G****Ex ia/ib IIB T4 Gb**

Oslo, 2010-09-29



Rolf Hoel
Certification Manager Ex-products

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[13] Schedule**[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX1504 Issue 2****[15] Description of Equipment or Protective System**

Telephone unit to be connected to Safety Barriers.

Ex ia IIB T4 Gb without buzzer component type 71800054 or 71800055

Ex ib IIB T4 Gb with buzzer component type 71800054 or 71800055

Type Designation

4005/4016 without buzzer

4005-B/4016-B with buzzer

Technical Data

Ui=28/22V DC 10V AC, Ii=94/147/200mA

Safety Description:

The telephone must be protected with safety barriers of category ia with data corresponding to the following input data of the telephone:

1. Microphone line and hear line with terminal numbers 25-26 and 27-28
Ui=10V AC, Ii=200mA, Pi=0,5W, Ci=0,5nF, Li=0mH
2. Buzzer line with terminal numbers 30-31:
Ui=22V DC, Ii=147mA, Pi=0,81W, Ci=0nF, Li=0mH
3. Call line with terminal numbers 1-12+29 or 1-24+29
Ui=28V DC, Ii=94mA, Pi=0,65W, Ci<50nF, Li=0mH
4. Maximum inductance to resistance ratio of supply cable:
L/R=120µH/Ω

Certified Components:

Buzzer type 71800054 or 71800055 manufactured by WERMA. Certificate DMT 98 ATEX E 005 X, code EEx ib IIC T4

Ingress Protection Code

IP20 according to EN 60529.

[16] Report No. 157583**Descriptive Documents**

Name/Number	Rev.	Date	Title/Description	Sheets
I.S. Descriptive document list	03	28.09.2010	92400-016-DL	1

Routine Test

None

Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2003-10-24	12006	Prime Certificate released
1	2010-01-05	135719	Upgrade to new standards, EN 60079-0: 2009, EN 60079-11: 2007
2	2010-09-29	157583	Revised document list.

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- [17] **Special Conditions for Safe Use**
None
- [18] **Essential Health and Safety Requirements**
See item 9



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