

[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 4**

[4] Equipment or Protective System: **Batteryless Telephone unit**

[5] Applicant/ Manufacturer: **Jotron AS**

[6] Address: **Innlaget 230
3185 Skoppum
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. **D0001072-01**

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

CENELEC EN 60079-0: 2012 and CENELEC 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 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 ib IIB T4 Gb -20°C ≤ Ta ≤ +40°C

Oslo, 2015-03-26

Asle Kaastad
Certification Manager Ex-products

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[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No **Nemko 03ATEX1504** Issue 4

[15] **Description of Equipment or Protective System**

Batteryless Telephone unit intended to be used as part of a larger communication system.

Type Designation

Model	Description
4005	12 position line selector switch without buzzer
4005-B	12 position line selector switch with buzzer
4016	24 position line selector switch without buzzer
4016-B	24 position line selector switch with buzzer

Technical Data

See below.

Safety Description:

Telephone units must be connected to separately Ex certified safety barriers which provide adequate level of protection. The investigated telephone units have following safety parameters.

Description	Terminals	Ui	Ii	Pi	Ci	Li
Mic/ear line (all models)	25/26, 27/28	10V	200mA	0.50W	0.5nF	0mH
Buzzer line (all models)	30,31	22V	147mA	0.81W	0nF	0mH
Call lines for 4005/4005-B	1-12, 29	28V	94mA	0.65W	<50nF	0mH
Call lines for 4016/4016-B	1-24, 29	28V	94mA	0.65W	<50nF	0mH

Maximum inductance to resistance ratio of supply cable: L/R=120µH/Ω

Separately Ex 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

Minimum IP20.

[16] **Report No. D0001072-01**

Descriptive Documents

Title:	Drawing No.:	Rev	Date:	Sheets
I.S Descriptive Document List	92400-016-DL	6	2014-12-17	1

[17] **Routine Test**

None

Special Conditions for Safe Use

None

[18] **Essential Health and Safety Requirements**

See item 9

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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.
3	2014-02-05	D0001072-00	Change of manufacturer's name. Update to requirements of the standards EN60079-0: 2012 & EN60079-11:2012. Downgrading marking to 'ib' type of protection in term of consistency with the intended use. Revised List of Descriptive Documents
4	2015-03-26	D0001072-01	Revised List of Descriptive Documents. This Appendix to Type Examination Report concerns the following changes: 1. Reduce the number of cabinet variants from 4 to 1. Added blanking plug in buzzer hole. Replace Pg gland with M16 Ex gland. 2. Changes to internal wiring IW-document due to new PTT switch on 15494 (headset) 3. Update of documentation due to changes in production line. Non-safety concern only

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