

3rd Supplement

acc. to directive 94/9/EC, Appendix III, No 6
to the EC-Type Examination Certificate



TÜV 09 ATEX 7759 X

Device: VHF and UHF FM transceiver TK-2260EX-E ; TK-3260EX-E; with battery pack KNB-58LEX-M or KNB-64LEX-M and speaker microphone KMC-46EX-M

Manufacturer: Kenwood Corporation

Address: 1-16-2 Hakusan, Midori-ku, Yokohama-shi, Kanagawa, 226-8525, Japan

(15) Description of supplements and modifications:

The VHF and UHF FM Transceiver are private mobile radio handheld equipments powered by a battery pack.

The subjects of this 3rd supplement are:

Additional Li-ion Battery Pack type KNB-64LEX-M
Rating and is-parameter:

DC 7.4 V; 1030mAh; 7,7Wh; Um 8.4 V; Iout 1.2 A max.

The equipment and its assessed accessories can be used in potentially explosive areas:

- Group I Mining M 2; level Mb
- Group II Gas IIC Category 2; Zone 1; EPL Gb
- Group III Dust IIIC Category 2, Zone 21, EPL Db

List of equipment and its assessed accessories:

VHF FM Transceiver	TK-2260EX- E
UHF FM Transceiver	TK-3260EX- E
with	
Li-ion Battery Pack	KNB-58LEX- M (No changes in 3 rd Supplement)
Li-ion Battery Pack	KNB-64LEX- M
Belt Clip	KBH-16EX- M (No changes in 3 rd Supplement)

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and accessories options:

Speaker Microphone	KMC-46EX-M
Leather Case	KLH-168EX- M (No changes in 3 rd Supplement)
Antenna	KRA- 22-M, M2, M3 (No changes in 3 rd Supplement)
Antenna	KRA- 23-M, M3 (No changes in 3 rd Supplement)
Antenna	KRA- 26-M, M2, M3 (no changes in 3 rd Supplement)
Antenna	KRA- 27-M, M3 (No changes for in 3 rd Supplement)

Technical data

Ambient temperature range: - 20 ... +50°C

IP Code protection:

TK-2260EX-E;TK-3260EX-E; Battery Pack KNB-58LEX- M:	IP64
Battery Pack KNB-64LEX- M KMC-46EX-M:	IP64 and IP 65

Rating of Battery Pack:

KNB-58LEX- M:	DC 7.4 V=; 1880mAh; 14Wh; U _m = 8.4 V; I _{out} =1.2 A _{max} .
KNB-64LEX- M	DC 7.4 V=; 1030mAh; 7,7Wh; U _m = 8.4 V; I _{out} =1.2 A _{max} .

RF power output: less than 2 W (limit for gas group IIC of IEC 60079-0)
 For FM Transceiver: Use only KNB-58LEX

For KNB-58LEX-M: Use only TK-2260EX / TK-3260EX

For KNB-64LEX-M: Use only TK-2260EX / TK-3260EX

For KMC-46EX-M: Use only TK-2260EX / TK-3260EX

is-parameter of universal connector:

is -parameter	TK-2260EX and TK-3260EX at universal connector (in total for all pins)	KMC-46EX at universal connector (in total for all pins)
outside hazardous areas	U _m = 5.5 V	-
in or outside hazardous areas	U _o = 8.4 V	U _i = 8.4 V
	I _o = 365mA	I _i = 365mA
	P _o = 3.0 W	P _i = 3.0 W
	C _o = 2.24 µF	C _i = 0.003 µF
	L _o = 20 µH	L _i = 9 µH

Note: The calculation of is-parameter was performed as mixed circuit. The parameter Ci and Li can be present both at same time.

All other parameters of equipment and its assessed accessories are unchanged

(16) Test Report No. 10527687-296 / Ex 7759.03 / 11

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(17) Special conditions for safe use

The original certificate and the 1th and 2nd supplement have to be observed.

(18) Basic Safety and Health Requirements

covered by mentioned standards in the original certificate.

TÜV - Zertifizierungsstelle


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Cologne, 2011-02-17

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