



PELTOR™

Peltor™ Lite-Com Pro II

MT7H7*4010-EU-50, IS version (intrinsically safe)

Product Description:

3M™ Peltor™ Lite-Com Pro II is a hearing protector with built in programmable 2-way communication radio 403-470 MHz, a level dependent function and an external audio input. It is approved for use in potentially explosive areas according to ATEX/ICECX regulations.

Art no:

MT7H7F4010-EU-50

MT7H7P3E4010-EU-50

MT7H7B4010-EU-50

Description:

Lite-Com Pro II 403-470 MHz headband Ex

Lite-Com Pro II 403-470 MHz neckband Ex

Lite-Com Pro II 403-470 MHz helmet att. Ex

3M ID no:

XH001679923

XH001679949

XH001679931

Key Features:

- 2-way radio communication
- Level dependent stereo function
- Rechargeable battery, Li-Ion
- Voice operated transmission (VOX)
- Busy channel indication
- Auto power off function
- Low battery warning
- IS (Intrinsically Safe) approval ATEX/ICECX

Applications:

- Underground coal mines
- Oil & Gas industry
- Industry where intrinsic safety is required

Standards and Approval:

MT7H7*4010-EU-50 is in conformity with the provisions set out in the PPE directive 89/686/EEC, R&TTE directive 1999/5/EC and the ATEX directive 94/9/EC.

The product has been examined by;

Combitech, Kungsörsvägen 68, 732 81, Arboga, Sweden, Notified Body#2279.

Bay Area Compliance Laboratories Corp. Shenzhen, Guangdong, Shenzhen, Guangdong, China, Notified Body#0313.

NEMKO AS, P.O. Box 73, Blindern, N-0314 OSLO, Norway, Notified Body# 0470.

Intrinsically Safe

MT7H7*4010-EU-50 headsets are ATEX and IECEX certified and approved by Nemko for use in hazardous locations. EC-Type Examination Certificate Number: Nemko 11ATEX1234X
IECEX Certificate (ExTR Ref.No NO/NEM/ExTR11.0031/00)

I M1 Ex ia I Ma

II 1G Ex ia IIC T4 -20°C ≤ Ta ≤ +50°C Ga

II 1D Ex ia IIC T130°C Da



Technical data specifications

Model	Weight
MT7H7F4010-EU-50	with ACK08: 540 g
MT7H7B4010-EU-50	with ACK08: 500 g
MT7H7P3E4010-EU-50	with ACK08: 540 g

Materials:

Headband: Stainless steel with leather covered headband

Neckband: Stainless steel with POE cover

Helmet attachment: Stainless steel supporting arms

Cups: ABS

Ear cushions: Foam/fluid-filled ear cushions (PVC/PUR)

Frequency range: 403 – 470 MHz

Operation mode: Simplex

Channels: Max. 30

Channel raster: 3.125kHz and 2.5kHz

Channel separation: 12.5 kHz, 20 kHz and 25 kHz

Modulation: 2.5kHz, 4kHz and 5kHz, FM (16K0F3E / 8K50F3E)

Microphone type: Dynamic (MT7) or electret (MT53)

Receiver sensibility: Typical -122 dBm

Selective squelch: Programmable (and supports CTCSS and DCS)

Output power: 200 / 20 / 10 mW ERP

Range: Outdoors up to 3 km depending on conditions

Operating temperature: -4°F (-20°C) to +122°F (+50°C)

Operating time:

(at conditions 10/10/80 TX/RX/Standby at 20°C):

Hi output power: approx. 14 hours

Mid output power: approx. 16 hours

Low output power: approx. 17 hours

Power:

Li-Ion battery ACK08, included in delivery

Charging time: approx. 10-12 hours

Capacity: 3,7 V, 1350 mA, 5 Wh

Power consumption: Stand-by: ca 55 mA, Receiving: ca 65 mA

Transmission: Low power: ca 100 mA

Medium power: ca 115 mA

High power: ca 200 mA

Storage:

Recommended storage conditions: -20° C - +55° C, <90% humidity

Recommended max. shelf life: 5 years except the batteries, <1 year

Use limitation:

Never modify or alter this product

Attenuation:

MT7H7F4010-EU-50 (headband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	6000
Mean Attenuation (dB)	16,5	17,5	22,5	30,3	34,0	33,6	37,7	33,8
St. dev. (dB)	3,2	2,9	2,7	2,9	2,5	2,8	2,0	3,7
APValue (84%)	13,3	14,6	19,8	27,4	31,5	30,8	35,7	30,2

SNR=31 dB H=32 dB M=28 dB L=21 dB

MT7H7B4010-EU-50 (neckband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	6000
Mean Attenuation (dB)	17,7	17,9	23,3	30,5	34,5	33,5	38,1	34,7
St. dev. (dB)	3,7	3,7	3,1	2,2	2,2	3,1	3,1	2,3
APValue (84%)	14,0	14,3	20,2	28,3	32,3	30,5	35,0	32,5

SNR=31 dB H=32 dB M=29 dB L=21 dB

MT7H7P3E4010-EUA-50 (helmet attachment)

Frequency (Hz)	63	125	250	500	1000	2000	4000	6000
Mean Attenuation (dB)	15,2	16,9	22,0	30,0	34,5	33,1	36,7	34,7
St. dev. (dB)	4,0	3,7	2,9	3,3	2,6	2,4	2,0	3,3
APValue (84%)	11,1	13,2	19,2	26,7	31,9	30,7	34,6	31,3

SNR=30 dB H=32 dB M=28 dB L=20 dB

