

# Roger DynaMic

## Technical Data

roger



**Roger DynaMic is a handy passaround microphone for use in classrooms.**

It works as a secondary microphone on Phonak's MultiTalker Network, enabling speakers other than the primary Roger microphone wearer to wirelessly access any hearing-impaired

listeners in the audience, including via the Roger Dynamic SoundField amplification system.

Roger DynaMic's algorithms are optimized to avoid picking up unwanted noise without missing any useful speech signals.

## Roger DynaMic features

- Crystal-clear sound quality
- Operates with Roger and Dynamic FM receivers
- MultiTalker Network (MTN) with 2 modes:
  - Classroom
  - Conference
- Easy user interface
- Comfortable in the hand

## What is Roger

Roger is the new digital standard that bridges the understanding gap, in noise and over distance, by wirelessly transmitting the speaker's voice directly to the listener.

## Internet

Phonak Pediatric on Facebook:

[www.facebook.com/phonakpediatric](http://www.facebook.com/phonakpediatric)

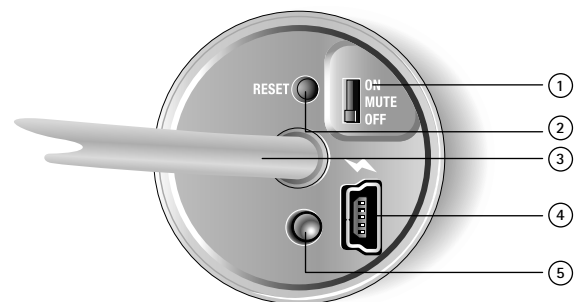
Phonak Pediatric on Twitter:

<https://twitter.com/PhonakPediatric>

[www.phonakpro.com](http://www.phonakpro.com)

## Description

- ① On/off/mute slider
- ② Reset
- ③ Antenna
- ④ Mini-USB for charging
- ⑤ Indicator light (LED) for:
  - Battery status
  - Charging
  - Error status



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## General data

Type:	Roger and Dynamic FM secondary microphone Operates with Roger receivers, Roger Dynamic SoundField and Dynamic FM receivers
Dimensions (L x Ø):	210 x 32 mm / 8.26 x 1.26 inches Antenna length: 150 mm / 5.9 inches
Weight:	110 g / 0.24 lbs
Operating conditions:	Temperature should not exceed the limit values of 0° to +40° Celsius / +32° to +104° Fahrenheit and relative humidity of < 95 % (non condensing)
Transport and storage conditions:	During transport or storage, the temperature should not exceed the limit values of -20° to +60° Celsius / -4° to +140° Fahrenheit and relative humidity of 90 % for a long period
Battery:	Type: Lithium Polymer Capacity: 1000 mAh Voltage: 3.7V Dimensions (L x W x H): 52 x 25.8 x 9.5 mm / 2 x 1 x 0.4 inches
Power supply:	Voltage input: 100 – 240 V Voltage output: 5 VDC / 1A Connector: Mini-USB Cable length: 1.5 m / 5 feet

## Audio characteristics

Audio bandwidth:	100 Hz – 7.3 kHz
Microphone sensitivity:	97 dB SPL at fmod -1kHz for fdev -4.0 KHz (100% modulation) 70 dB SPL at fmod -1 kHz for fdev -3.0 KHz

## FM system data

### Wireless link between FM devices (Synchronization/Monitoring)

FSK frequency (transmitter to receiver):	40.96 kHz
OOK frequency (receiver to transmitter):	8.192 kHz
Operating range:	10 cm / 3.9 inches
Wireless datalink to FM receiver Frequency range:	Above the audio band

## Accessories

Accessories:	Desk stand with clamp
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## Roger characteristics

Transmission technology:	2.4 GHz including adaptive automatic frequency hopping
Power emission:	100 mW
Operating range:	20 m / 66 feet

## Roger system data

### Wireless link between Roger devices (Connect/Check)

Frequency (Roger microphone to Roger receiver):	2.4 GHz
Frequency (Roger receiver to Roger microphone):	2.4 GHz
Operating range:	10 cm / 3.9 inches

## MultiTalker Network

Operating range:	20 m / 66 feet
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## Microphone characteristics

Microphone:	Array microphone with enhanced Voice Activity Detector for pick-up at distances of 15 cm (6") or less.
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## FM characteristics

Frequency range:	169 - 176 MHz (H-Band) 214 - 220 MHz (N-Band)
Power emission:	5 mW
Operating range:	20 m / 66 feet

## Standards

El. Safety:	IEC/EN 60950-1
Radiocom 2.4 GHz:	EN 300 328
EMC:	EN 301.489-1, -3, -9, -17
SAR (2.4 GHz):	EN 62209-2 SAR1g = 0.10 W/kg SAR 10g = 0.05 W/kg
Radiocom FM:	EN 300.422-1, -2 EN 300.330-1, -2