








EAR AND MOUTH SIMULATORS

Ear and Mouth Simulators provide optimal conditions for objective and standardised testing. The products combine the requirements for acoustical performance with those for practical use.

<p>Ear Simulator</p> <p>4185</p> <ul style="list-style-type: none"> • To make measurements on handset telephones • For handsets with high-impedance earphones where sealed conditions are required • Conforms to ITU-T P.57 Type 1, IEC 318 • Microphone Type 4192 and Preamplifier Type 2669 L included • Individually calibrated 	
<p>Ear Simulator</p> <p>4152</p> <ul style="list-style-type: none"> • To make measurements on hearing aids, earphones and headphones • For verification of audiometers using earphones • Conforms to IEC 126, ANSI 3.7-1973 and NBS9A • 2 cm³ and 6 cm³ couplers • Additional accessories are Microphone Type 4144 and Preamplifier Type 2669 L 	
<p>Ear Simulator</p> <p>4153</p> <ul style="list-style-type: none"> • To make measurements on earphones, headphones and receivers • For verification of audiometers using earphones • Sample testing of receivers for mobile phones • Conforms to IEC 318 • Additional accessories are Microphone Type 4192 and Preamplifier Type 2669 L 	
<p>Ear Simulator</p> <p>4157</p> <ul style="list-style-type: none"> • To make measurements on hearing aids • Conforms to IEC 711, ANSI S3.35 and ITU-T P.57 Type 2 • IEC 711 Coupler and Preamplifier Type 2669 L included • Individually calibrated 	
<p>Wideband Ear Simulator</p> <p>4195</p> <ul style="list-style-type: none"> • To make measurements on handset telephones • Realistic acoustical load of handset • Conforms to ITU-T P.57 Type 3.2 • IEC 711 Coupler, low- and high-leak adaptors and Preamplifier Type 2669 L included • Individually calibrated 	
<p>Wideband Ear Simulator for QC</p> <p>4195 Q</p> <ul style="list-style-type: none"> • To make production line measurements (QC) on handset telephones • Individually customised parts to fit a specific telephone design combined with reuseable, standard parts • Perfect seal to handset insures high on-line repeatability • Performance similar to Type 4195 (low-leak) • Project sales in corporation with HQ 	
<p>Mouth Simulator</p> <p>4227</p> <ul style="list-style-type: none"> • Measurements on handset telephones • Accurate reference source for near-field testing of handsets and mic. • Realistic simulation of the human voice field • Conforms to ITU-T P.51, IEEE 269 and IEEE 661 • Low distortion • Built-in overload protection circuit • Individually calibrated 	

Test Head

4602 B

- For accurate and repeatable positioning of telephone handsets
- Standardised speaking positions – LRGP, HATS, AEN and REF
- Accommodates Ear Simulators Types 4185 and 4195
- Minimises diffraction and reflection
- Additional accessories are Ear Simulators Types 4185 and 4195 and Mouth Simulator Type 4227



Artificial Mastoid

4930

- To make measurements on bone conducting hearing aids
- Simulates the mechanical impedance of human mastoid
- Conforms to IEC 373, BS 4009 and ANSI S3.13 – 1972
- Individually calibrated



Head and Torso Simulator (HATS)

4128 C

- Objective in-situ measurements on headsets, hearing aids, and telephones (+ hands-free)
- Conforms to ITU-T P.51, P.57, P.58, IEEE 269, IEEE 661
- Realistic simulation of the human voice field as well as human pinna
- Built-in mouth simulator and one ear simulator with Preamplifier Type 2669 L included
- Individually calibrated



Anechoic Test Box

4232

- To make measurements on hearing aids and microphones
- Built-in sound source
- Airborne noise insulation
- Approximates free-field conditions above 500 Hz
- Current loop for tele-coil testing



Head and Torso Simulator with Handset Positioner

4128 D
(4606)

- Objective in-situ measurements on telephone handsets
- Conforms to ITU-T P.58
- Realistic simulation of humans holding handset telephones (3D)
- Repeatable positioning
- Handset Positioner Type 4606 available for upgrade of Type 4128 C
- Individually calibrated



Turntable System

9640

- For accurate positioning during directivity measurements
- 1 degree resolution
- Remote control using IEEE 488



2cc Click-on Coupler

4946

- To make measurements on hearing aids
- Conforms to ANSI S3.7 (1995) and IEC 60126 (1973)
- 4 different click-on adaptors
- Easy calibration
- Rugged design for repetitive use in production environment
- Additional accessories are Pre-polarized Microphone Type 4947 and DeltaTron Preamplifier Type 2695



Audio Power Amplifier

2716 C

- For driving sound sources
- Two channels
- 100 W in 8 ohm
- Gain: 30 dB – 0 dB, in 6 dB steps
- Advanced protection
- 2 x input and output cables included

