MICROTECH GEFELL

microphones & acoustic systems - founded 1928 by Georg Neumann

Weather shield WS 1

The weather-shield WS 1 is an accessory designed for all common ½" free-field measurement microphones from Microtech Gefell in compliance with class 1 – frequency response according to DIN EN60651 and DIN EC61672.

Applications:

- Short-time outdoor measuring
- Analysis of environmental and traffic noise
- for "pass by" measurements according to ISO-Norm (362 etc.)
- monitor and control of train noise
- monitor and control of event noise

Features:

Reference direction	horizontal sound incidence perpendicular to the microphone axis
Frequency range	20 Hz … 20 kHz according to class 1 DIN IEC 60651
Polar patterns	± 30°, ± 90°, ± 150° to reference direction, tolerance level according to class 1 IEC 61672 within frequency range 20 Hz … 12,5 kHz

Mechanical specifications

This wind and rain protection device protects the highly responsive precision measurement microphone. Additionally the unit design includes a protective "bird spike".

The microphone can be mounted in a defined position by the use of a secure clamp. No additional tooling equipment is necessary for installation, neither is an adjusting gauge, because the upper part of the microphone provides an automatic stop for microphone's positioning. Once the amplifier is clamped, only the upper part of the weather protection device has to be screwed off for daily calibration by sound pressure calibrator or pistonphone. The result is quiet and easy handling in the real measuring-operation.

By means of the 3/8" internal screw thread on the housing's rear side, the use of any common microphone stands and holders is possible. Between measurement capsule and preamplifier a dehumidifier with a standardised thread can be used, provided that the capsule is back-vented. This prevents humidity from reaching the high-resistive capsule-design.

Connection

Different kind of feedings can be used; such as the traditional LEMO-connections, current-powered microphones (ICP ®), Delta Tron ®, IEPE and phantom-powered measurement-microphone preamplifiers.

Delivery

WS 1 Order-no.: 305041

Accessories (optional)

Dehumidifier adaptor TA 202
Connection cable LEMO (for MV 203/ 203.3/204/ 204.3)
Connection cable BNC (for MV 210)

Capsule-preamplifier combinations:

Capsules	Preamplifier
MK 221	MV 203 MV 203.3
MK 222	MV 203 MV 203.3
MK 222 E	MV 203 (U_{pol} =V 0 power supply) MV 204 MV 204.3 MV 210 MV 220
MK 222 B	MV 203 MV 203.3
MK 222 BE	MV 203 (U_{pol} =0 V power supply) MV 204 MV 204.3 MV 210 MV 220
MK 223	MV 203 MV 203.3
MK 223 E	MV 203 (U_{pol} =0 V power supply) MV 204 MV 204.3 MV 210 MV 220
MK 250	MV 203 (U_{pol} =0 V power supply) MV 204 MV 204.3 MV 210 MV 220
MK 255	MV 203 (U_{pol} =0 V power supply) MV 204 MV 204.3 MV 210 MV 220

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