

Data sheet **dsound**[®] **USS4-KS**

Universal acoustic sensor for autonomous detection, evaluation, recording and documentation of sounds in industrial environments.

Product description

- deposed borne noise transducer
- Powerful real-time signal processing directly on the sensor in the integrated Digital Signal Processor
- USB 2.0 – Interface
- Training, parameterization, visualization and storage of Sensor data via PC-software
- Two switching outputs, one synchronization input and an analog input (configurable functionality via PC Software) for direct PLC connection

Areas of application

preferably signals with a high harmonic content (sound, sound mixtures), acoustic material and geometry testing



Quality and part inspection

for example: ceramic plates, metal plates



Quality inspection of glass containers

for example: bottles, jars, lamp bulbs, vials



Differentiated gear and machine monitoring

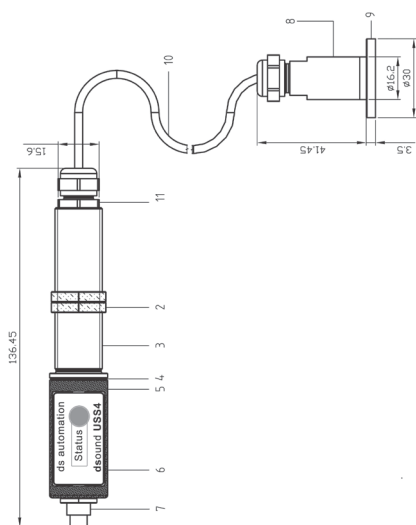
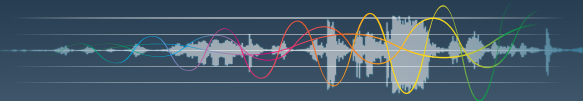
for example: drives, bearings, wheels, speed monitoring

Automatic recording of acoustic signals

in industrial environments, for example: general quality assurance



*example of use
small parts inspection*



Technical data

Sound sensor for airborne sound signals from 30 Hz - 12.5 kHz
Configuration and parameterization with PC software via USB 2.0 - Interface
2 switching outputs (potential-free), 1 synchronization input
1 analog input 0... 10 V
Supply: 10 ... 30 VDC
8-pin sub-miniature circular connector M9 x 0.5
Robust, compact housing (M18 x 1) x 130 mm (Protection degree IP67)

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|---|---|
| 2. Nuts M18x1 | 8. Borne sound pickup with thread M6x10 |
| 3. Housing (VA) M18x1 | 9. Mounting adapter for Borne sound pickup (Pitch circle diameter 30mm) |
| 4. Flat seal NBR65 | 10. Connecting cable length 1.5 m |
| 5. Housing cover (ABS) | 11. cable gland (Nickel plated brass) |
| 6. display | |
| 7. Subminiature circular connectors M9 x 0.5, 8-pin | |

Order information

USS4-KS-N/K	Sound Sensor dsound [®] USS4 body sound with pickup Type N (0,5g - 500g)
USS4-KS-E/K	Sound Sensor dsound [®] USS4 body sound with pickup Type E (0,05g - 50g)

Accessories

CLN-V	Operating and programming software for sound sensor dsound [®] USS4, full version	Needed
<i>For rail mounting:</i>		
USS4-Con-Box	USS4-Con box (in conjunction with USS4-K-2/S or USS4-K-4/S)	Mounting
W18S12	rotatable mounting system (VA, for mounting on Ø12 mm Round Profile)	
W18	mounting system rigid (VA)	
MH	Rotating microphone holder MH including sensor spacer and screw reduction (5/8 to 3/8 inch)	Connection technology
USS-NT	Optional power unit to supply the sensor	
UCT1	Optional 4.8" Panel PC; alternatively WinXP, Win7, Win2000, Windows Embedded, USB, LAN & digital I/O-ports (in conjunction with USS4-K-2/S or USS4-K-4/S)	
USS4-K-2/S (2m) USS4-K-4/S (4m)	Connection cable for USS4 8-pin, shielded, socket M9 x 0.5 / Connector M9 x 0.5	

Please send your questions and orders to:

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