

Data sheet *dsound*[®] USS4-LS

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

Product description

- Integral, high quality electret microphone
- 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

(metal, ceramic, glass)

for example: nuts, washers, pins, sleeves, bushings, rings, stamping and deep drawn components, ceramic sintered parts



Quality inspection of glass containers

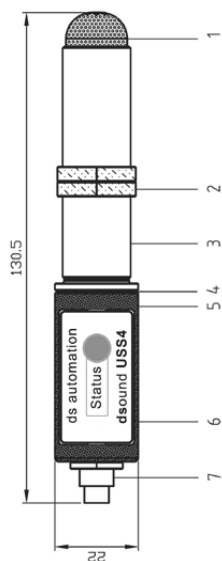
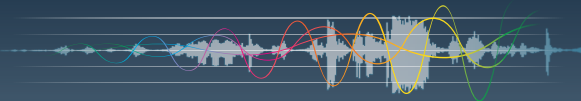
for example: bottles, jars, lamp bulbs, vials

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 100 Hz - 100 kHz
Internal microphone
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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|-------------------------------------|---|
| 1. Interchangeable microphone cover | 5. Housing screw connection (ABS) |
| 2. Nuts M18 x 1 | 6. display |
| 3. Housing (VA) M18 x 1 | 7. Subminiature circular connectors M9 x 0.5, 8-pin |
| 4. Flat seal NBR65 | |



Order information

USS4-LS	Sound Sensor dsound [®] USS4 airborne sound
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Accessories

CLN-V	Operating and programming software for sound sensor dsound [®] USS4, full version	Needed
<i>For rail mounting:</i>		
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	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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