

Staneo

More than 10 years of experience
for your measurements

DW-S – DW-B – DW-DIN



Short period sensors
for surface, borehole or remote operation

www.staneo.fr

DW-S – DW-B – DW-DIN

Short period sensors for surface, borehole or remote operation

DW sensors are **short period seismometers** designed for surface, shallow borehole or deep borehole operations.

They are based on innovative digital equalization processes providing a **flat response from 1 or 5s to 130Hz**. The *in situ* calibration insures that each sensor is equalized in the real operating conditions (temperature, tilt) and make possible the correction for ageing that affects any geophone. Sensors of the DW family are designed to be used in conjunction with **StaneO** DIN and MOB digitizers.

All sensors share the same **ease of setup and robustness**.

DW-S and **DW-B** are designed for **surface** and **borehole** installation, respectively. DW-S includes sensing and electronic parts in a robust aluminium housing with adjustable feet while DW-B integrates sensing and electronic parts in a overmolded housing.

DW-DIN keeps electronics in surface while geophones are downhole in hot/harsh environment that is not suitable for electronics.

COMMON CHARACTERISTICS

Channels: 3 (orthogonal)
+1 temperature channel
Upper frequency limit: 130Hz
Transduction factor: 920V/m/s
Full scale (differential): 5Vpp
Impedance (on each line): 50Ω
Power supply: 8-18V
Power consumption: 150mW
Damping: 0,707
Eigenfrequency: 1Hz/0.2Hz
RMS self-noise:
5s-130Hz: 35nm/s
1s-130Hz: 4nm/s
10Hz-130Hz: 3nm/s

DW-S

Housing: coated aluminium
Dimensions: 175x121x100mm
Weight: 1.7kg
Ingress protection: IP67
Connector: male 10 pins

DW-B

Housing: PUR overmolded
on cable
Dimensions: diameter: 5cm/2"
height: 35cm/~14"
Weight: 2.5kg (without cable)
Ingress protection: IP68
(>500m permanent
submersion)

DW-DIN

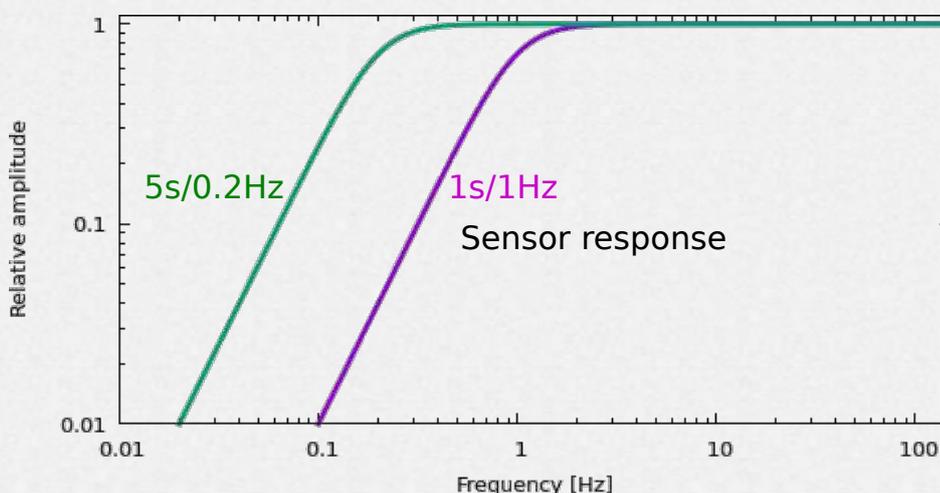
Housing: DIN enclosure
Dimensions: 4 modules width
Ingress protection: IP20
Connector: screw term.
Adjustable gain: 2,1...1/32

Applications

For temporary or long term/permanent installation, one of the 3 housing options will fit any requirement whenever a robust and stable short period sensor is required: noise measurement (including H/V studies), structural health monitoring, post-seismic and micro-seismic surveys ...

Geophone upgrade

Non-standard DW sensors can also be built around most already in place geophones: e.g. 10Hz geophones can be extended down to 0.5s or 1s. Contact STANEO for special requests about this process.



November 2017 - Specifications subject to changes without notice