

StaneO

**More than 10 years of experience
for your measurements**

MICRO-CAB



Fully autonomous microseismic cabinet
designed for painless operation

www.staneo.fr

MICRO-CAB

Integrated microseismic cabinet

EASY TO INSTALL, EASY TO USE, BUT STILL VERSATILE

MICRO-CAB is a fully integrated **micro-seismic cabinet**.

Designed with the scope of high level of **QHSE** and based on **industry standards for software and hardware**, the installation and maintenance only require professional skills limited to the area of each department involved : infrastructure/ installation management, communication management, data processing.

MICRO-CAB includes all the benefits of the modules integrated : 6 or 9 channel DIN digitizer, DW-DIN signal conditioner, solar energy management and powerful and versatile 3/4G and IoT communication. Complete health state monitoring of each part of the system enables **efficient preventive maintenance** of equipments and thus **efficient and cost-effective microseismic monitoring**.

We keep it simple but we keep it versatile and customizable !

The basic **MICRO-CAB** system includes **9 channels** for two 3C seismometers (5s-130Hz) at different depths for **micro-earthquake detection** and one superficial accelerometer for **strong motions**. Communication is based on VPN over 3/4G modem, and power is provided by a **solar system tailored for each installation with the scope of continuous service**.

Customization of **MICRO-CAB** systems includes **different channel schemes**, other **power sources** (mains, 24/48VDC ...) and **communication media** (satellite, ADSL, WiFi, cable, etc. but also **SMS with triggered or periodic 3/4G**). **MICRO-CAB** integrates what is necessary to allow you **to achieve your goal**.

APPLICATIONS

Microseismic monitoring for :
vibration monitoring,
geothermy, gaz storage
(energy, CO2, H2), fluid
injection and/or extraction...

SENSOR COMPATIBILITY

Seismic (vibrations):
raw geophones (any type),
amplified geophones,
broadband sensors,
accelerometers (MEMS, FBA,
geophone w/
feedback), gyroscope

Tiltmeters:
MEMS, electrolytic ...

Atmospheric sensors:
general meteorological
sensors (wind, pressure,
temperature, humidity ...),
microbarometers

Other sensors:
almost any differential/single
ended analog output sensor,
various digital sensors

MECHANICS & DIMENSIONS

for basic model (and options)
Cabinet size and weight:
400x500x200mm, 5kg
(larger models available)

Mounting :
3m mast for cabinet and solar
panel (wall mounting option)

Environmental :
IP66, -20-60°C
IK10 (polyester reinforced with
halogen-free fibreglass)

**Electrical interfaces and
connectors :**
- screw terminals for sensors
- screw terminal for battery
- MC4 for solar panels

Battery enclosure :
- IP68 RJ45 on option
- protective sheath for cables
- 30I (90Ah) or 72I (130Ah)
- fluid retention chest
- ventilated

Solar panel :
mast mounted, with
adjustable tilt and azimuth

COMMUNICATION & MONITORING

Compatible media: Eth., USB,
serial, Bluetooth, WiFi, leased
line, LORA, Sigfox, ADSL/cable,
GSMGPRS/3G, SMS ...

Health monitoring:
battery chest and enclosure
weather, communication
status, solar regulator (up to 3
units), and sensor statistics

Data interfaces/protocols:
SEEDLink v3, ext2/vfat (SDS
option) on removable medium,
FTP, HTTP, MQTT and e-mail
(for triggers)

SOH interfaces/protocols:
SNMP, HTTP, MQTT, MODBUS (RTU
and TCP)

POWER SUPPLY OPTIONS

Power/capacity:
from 100W/35Ah to 270/130Ah
Consumption for basic model:
min 1W, max 4W