

\rightarrow DAC H200

A class of compact, lightweight, and versatile DAC cable test systems featuring withstand voltage test, PD analysis and PD localization

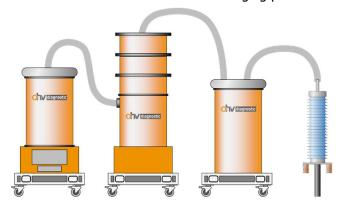
The Damped Alternating Current (DAC) high voltage H200 by ohv diagnostic is an exceptionally compact, lightweight, and versatile class of systems for testing and diagnosis of high voltage transmission cables having a rated voltage up to 132 kV. It is programmable and features automatic withstand voltage test, partial discharge (PD) measurement and analysis as well as PD localisation. Control and analysis are user-friendly using the ohv-suite which is the common software platform for the complete range of ohv diagnostic products.

DAC cable testing is an advanced analysis and diagnosis concept, not only a basic "good or bad" measurement tool. It allows to assess the cable insulation condition of newly installed, repaired or service-aged cable systems and thus supports asset management. The measuring modes include

- Voltage withstand test at voltage level representing operational stress and above,
- Partial discharge measurement, analysis, and location along complete cable systems and
- Estimation of loss factor (tan δ).

DAC voltage test and PD analysis allow reliable detection of

- Insulation deficiencies caused by installation or laying,
- Deficiencies of the cable accessories, i.e., joints and terminations
- Cable insulation deterioration due to aging processes.





The ohv cable test systems can be designed to meet the specific maximum test voltage as per request. The test system comes in rugged and robust transportation and storage cases which are easy to ship by train, truck or even airplane to the cable test site.

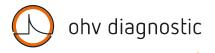
Test Features

- Withstand voltage test
- PD measurement, analysis, and location
- Loss factor estimation
- Cable testing as per IEC60060-3, IEEE P400.4/D7

On Site Performance

- Maximum charging and peak voltage 192 kV
- 3 units approx. 500 kg total only
- Rugged and robust transportation and storage cases
- Easy and intuitive operation with ohv diagnostic software Suite

PROTECTING YOUR ASSETS.



DAC H200

System Layout	
Unit 1	High Voltage Direct Current (HVDC) Generator
Unit 2	Combined High Voltage Switch / Oscillator Impedance
Unit 3	Measuring and Coupling Capacitor
Voltages and Operation	
Power Supply	Single phase, 94250 V, 4863 Hz, 1000 VA
DAC Output Voltage	max. 192 kV _{peak} / 136 kV _{RMS} (rating adaptable to customer request) 15 Hz500 Hz (according to IEC 60060-3)
DAC Frequency Range	15 Hz500 Hz (according to IEC 60060-5)
Operation	
Test Object Capacity	30 nF8 μ F (corresponding to approximately 30 km cable)
Joint Locating	Integrated in calibration mode
PD Measuring range	5 pC100 nC
PD Measuring resolution	1 pC
PD Location	Wide-band, 100 kHz20 MHz, automatic adjustment
Software	ohv diagnostic Suite included
Safety	Grounding rod Voltage control
Environmental Sensors	Humidity and Temperature
Operating range Mass	Temperature: 050°C Humidity: 590% rel. humidity (RH), non-condensing Approximately 500 kg in 3 units (depending on voltage rating)
Dimensions	3 units in transportation and storage boxes each 800 x 800 mm footprint and 1,200-1,700 mm height (depending on voltage rating)

Scope of Supply

■ DAC system including HVDC power supply, combined HV switch / oscillator coil and measuring / coupling capacitor in 3 rugged transportation and storage cases

Phone: +49 351 7952 7310

E-mail: sales@ohv-diagnostic.com

Fax: +49 351 7952 7301

- Power supply, grounding and HV connection cable set, grounding rod, calibrator
- Rugged cable and accessory transportation and storage cases
- ohv diagnostic software Suite
- Operating manual

Changes and modifications by ohv without any previous notice. Ohv is not liable for any technical or printing errors.