

# HCU500 mobile Diagnostics- and Calibration Unit for Gearwheel Encoders



- Signal analysis of analogue Sin/Cos encoder
- Gearwheel analysis (radial run out, tooth defects)
- Documentation (Service, QA)
- Configuration of self calibration data & modes
- Access encoder memory: electronic identification plate, monitoring data, operating hours counter, encoder specific comments



**Signal analysis Sin/Cos/Ref**  
Amplitude: A,B A/B  
Offset: A,B  
Phase



**Data storage**  
Store/retrieve  
encoder memory  
signal values



**Tachometer**  
Display current  
speed



**Gearwheel analysis**  
Number of teeth  
Radial run-out  
Tooth defects



**Encoder memory**  
Electronic identification plate  
Spindle parameters  
Customer specific comments



**Encoder Settings**  
Configure self-  
calibration  
data & modes  
Config. AGC



**HCU Settings**  
Time until stand-by  
Time until shutoff



**Monitoring**  
Operating hours counter  
Speed histogram



**Help Menu**

# HCU500 Mobile Diagnostics- and Calibration Unit for Gearwheel Encoders

**Robust enclosure**  
integrated  
magnetic holder



**Resistive Touch Display**  
useable with  
gloves

**Battery**  
Lifetime  
up to 8h



**USB**  
Charging,  
data access



Signal Input



On/Off

The Mobile HCU500 Diagnostics- and Calibration Unit features a simple, user oriented operation concept designed for service calls.

- Operation via touchscreen
- Self explanatory icons
- Simple menu layout
- Up to 8h of battery life

The HCU500 analyses the signals from analogue Sin/Cos encoders in detail. Furthermore, evaluation of the quality of the encoder wheel (magnet- or gearwheel) is carried out.

The following functions, among others, can be used with the VS Sensorik AM series encoders (PuV interface).

- Access operating hours counter
- Access monitoring data
- Access deposited additional information
- Configuration of self calibration data & mode
- Initiate self calibration

The recorded signal values and the encoder parameters can be used for quality assurance and can be imported to a PC via the integrated USB interface.

A magnet is integrated into the robust enclosure of the HCU, thus being easily attachable to a machine.

**Delivery Contents:**

HCU500 hand held calibration unit, USB power supply, USB Mini cable, Connector cable M23/17P, Hardcover

**Available Accesories:**

Connector cable HCU / M23/12P  
Connector cable HCU / D-Sub 25P