

WEARDC

Diagnostic inspection and supervision
electromechanical installations





HOW ARPEDON'S WEARDC WORKS

Open the WearDC One application and select the path to follow.

You will be immediately informed about the appropriate sensors that will be required.

This avoids the transfer of unnecessary weight and volume on the field.

WearDC supports optical inspection checklists, measurements with sensors and thermography.

MULTIPLE SENSORS ONE DEVICE

Perform measurements with vibration, ultrasound, electric current, pressure, temperature, speed sensors and any 0-10V/4-20mA sensor.

Instructions with photos and drawings on your mobile screen help you collect data more easily and validly than ever before.

In the same route perform optical inspections and collect thermal images.

All the measurements are automatically transferred to the extremely easy to use Mechbase software.

PAPERLESS INSPECTIONS

You no longer need to wander the field with dossiers and pencils.

With the WearDC One application you perform visual inspections from your Android device with new capabilities such as reference pictures and comments.

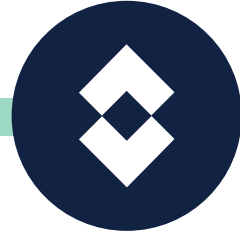
Your reports will be clearer than ever before.



MAIN UNIT

1. Power switch
2. Data port
3. Charging port / speedometer
4. Sampling ports





MEASURE QUICKLY AND WITH EASE

The device supports QR codes on measurement points for quick access.

Scan the QR code on the asset that caught your interest and access its earlier measurements.

See all the information and measure again.

THERMOGRAPHS WITH THE FLIR SIGNATURE

Use FLIR cameras on your routes. The small FLIR ONE is supported as well as bigger compatible cameras.

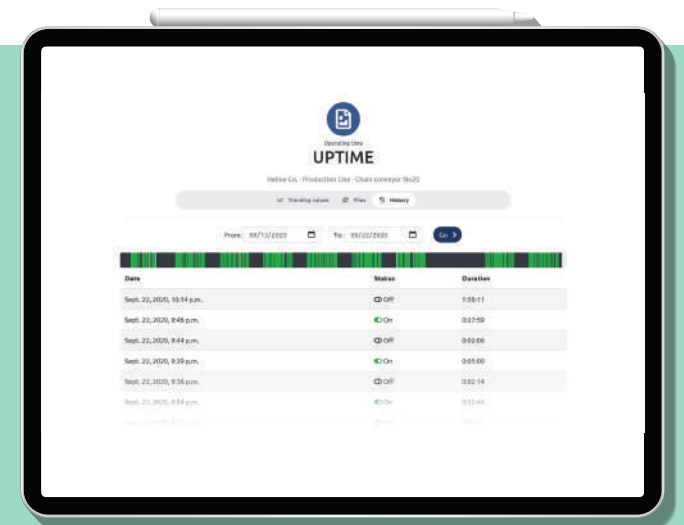
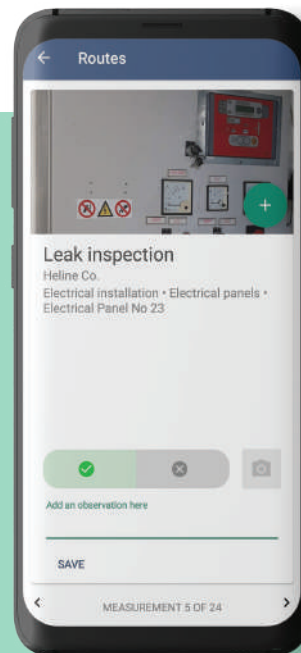
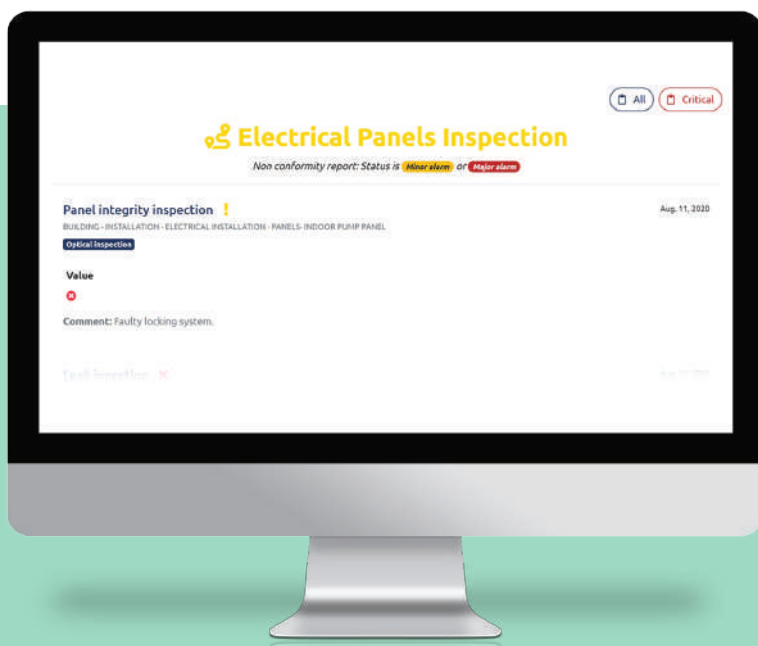
Check rotating and stationary equipment and manage the images together with the rest of the measurements in the **Mechbase** software.

WEARDC TRANSFORMS MAINTANCE

In a diagnostic maintenance program, the execution of measurements was always a difficult and timely procedure.

No more. WearDC, is the maintenance system that can be used by anyone.

Power production, industry, oil & gas, maritime, facility management, non-profit organizations all benefit from WearDC for better observation of their equipment.



MECHBASE

Get to know your machines and the health of your equipment. Organize maintenance routes for WearDC, analyze measurements from multiple sensors and share reports easily and quickly with the Mechbase software.

Collect all the information in one place, review them with one look and take action. Visualize all the measurement points of your equipment and keep track of multiple values per point. You can easily set which values are important to you and set alarms.

Measurements from our systems are collected to Mechbase. The software has great interconnection capabilities with other systems like CMMS, ERP and Business Analytics.

Especially for the CMMS (Computerized Maintenance Management System) there is the option to synchronize measurements and also when a measurement surpasses the predefined limits, a work order is generated for further action.

CHARACTERISTICS

Sampling rate	300 kHz (max)
Channels	8 single ended, 16bit with multisampling capabilities
Event counter	Yes
Sensor supply	+22V, +12V, +5V
Measurement range	±10V (max)
Input impedance	>100MΩ
Interface	USB, connection with Android 10+ devices
Dimensions	150 × 200 × 54 mm (L x W x H)
Weight	330 g
Casing	ABS (UL 94 HB), IP54
Operating Conditions	Temperature: 0°C to 50°C or 32°F to 122°F Humidity: 20 – 85% (non-condensing) Drop Test: From 1.5 m on concrete (with protective cover)

POWER

Battery	3400 mAh Lithium Ion/3.6V
Duration	8 hours (typical)
Charger	5V, 1A

COMPATIBLE MATERIALS

Compatible sensors	Standard IEPE (IEEE 1451.4) industrial accelerometers Ultraprobes®/UE Systems Inc. ultrasound equipment Sensors 0–10V (revolution speed, static and dynamic pressure temperature, infrared radiation, humidity, voltage/current, force, torque, strain)
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COMPLIANCE

Regulatory compliance	EU Directives, RoHS, EN 61010-1:2010, EN61010-2-032:210 EN61010-2-033:2012, EN61010-031:2015, EN61326-1:2013 EN61326-2-2:2013, EN61326-2-3:2013
Classification & hierarchy standards	NACE Rev.2, ISO13373-2:2016 ISO14224:2006, MIMOSA™
Compatibility with CMMS software	AIMMS/Atlantis, Coswin 8i®/Siveco Group