

Fast and Effective Poles Inspection and Management

The context

Nowadays **Telecom and Power Companies** are putting increasing attention on **cost effective processes to extend the lives of existing facilities** while maintaining adequate levels of efficiency and **reliability**.

Condition assessment and residual strength estimation of overhead lines components are important issues in planning of **maintenance and replacement** activities. Considering the large number of wood poles in the Utilities and Telecom Companies distribution networks, proper condition assessment is indispensable for **optimizing maintenance and replacement, and for controlling risk**.



In this scenario, **standardized and formalized methods for inspection and condition assessment of wood poles** are requested by the distribution companies, in order to conduct regular inspection using **non-destructive, scientific and objective techniques**.

The solution: CXI-PT5500

CXI-PT5500 uses innovative measurement and analysis technologies to easily and thoroughly:

- **Verify the static condition** of the installed pole, allowing to your field staff to perform an objective and fast assessment of the status of this important asset.
- **Collect the measurement data** to feed an off-line data storage, to support the assessment of the pole expected life.

CXI-PT5500 enables field engineers to answer **the three key questions** in pole maintenance activities:

1. Is the pole **safe to climb**?
2. Can the pole **hold the line up**?
3. **How far** is the pole from **being replaced**?

You just need to **place the small and light sensor to the pole** with a strap, input the basic information of the pole **using an intuitive GUI** in the Smartphone, **activate the measurement**, hit the pole with a hammer **and wait a few seconds for the results**:

- **RED result** - the pole may be **seriously deteriorated** and needs **to be replaced**.
- **YELLOW result** - the pole is **in danger of being deteriorated**. It needs attention.
- **GREEN result** – the pole is **in good condition**.





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Advanced features

The device is **rugged designed** for outdoor operations, moreover being **IP65 compliant**.

CXI-PT5500 computer based controller allows the easy add-on of the basic **asset-inventory automation** tasks as:

- **GPS based mapping** of the poles
- **structured collection of inventory** information (e.g. lines or equipment installed, pole age ...)
- **Automatic interaction with existing assets data-bases/inventories** and asset management systems.

Data can be easily exchanged with the Operator Management Systems, by using **3G/4G data connection** and/or **LAN capabilities** provided by the device.

Bluetooth data exchange is also available, for a **cable less easy and handy connection** to the technician smartphone or tablet.

With its unique combination of measurement innovation, portability and ease of use, **CXI-PT5500 sets an unmatched reference in the field of cost effective, highly automated, objective measurement standards in wooden pole maintenance.**

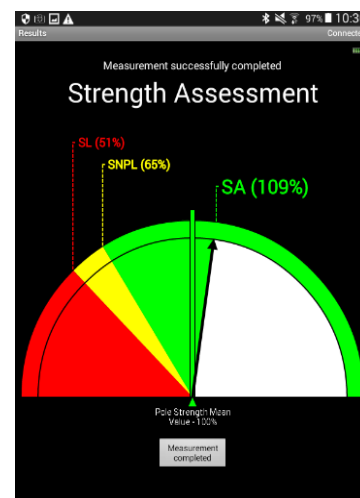
Date and time of the test:	20160607_1102
Feasibility of the measurement:	Measurable
Circuit ID:	hvyv
Pole number:	fugug
Wood type:	Pine
Pole type:	12 meters
Year of production:	20100101
Circumference at 1700 mm:	700
Circumference at 200 mm:	720
Scarf mark missing:	YES
No sign:	YES
Scarf mark height:	0
Height above ground:	10000
Break:	NO
Break Height:	0
Break Width:	0
Break Depth:	0
Pole length:	12000

Why CXI-PT5500

There are many reasons why you should decide to use CXI-PT5500 in your wooden poles assessment and management activities:

- Unlike other solutions in the market, CXI-PT5500 is **lightweight as a portable / handheld instrument, fast to connect to the pole under test, completely non-intrusive** and extremely easy to operate.
- CXI-PT5500 is currently the **only instrument** for poles testing that provides **objective and non-invasive measurement**, based on its innovative technology in the poles frequency response area.
- **Straightforward integration** with **Asset Management applications**.

CXI-PT5500 is protected under the U.S. Patent No.: US 8,630,813 B2



CINETIX is a high skilled Italian company based in Padua (Italy). We work in different technology areas, from Telecommunication to Industrial Automation, strongly focused in design and development of value added high technology solutions. In the Telecommunication market Cinetix delivers complete turn-key solutions for Traffic and Quality Measurements, Fixed and Mobile Networks Monitoring and Test, Access Networks Maintenance and Troubleshooting. CINETIX is ISO 9001:2000 certified.



Cinetix and Vonaq are committed to the continuous improvement of their products; consequently specifications may change without notice.

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