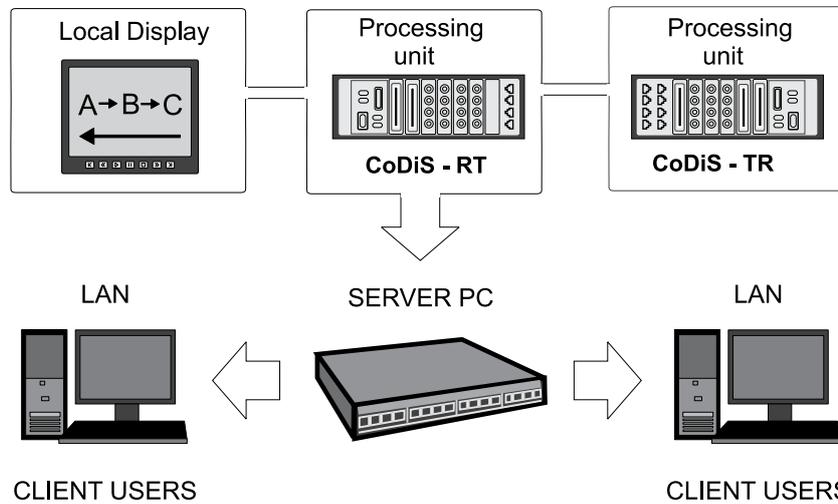
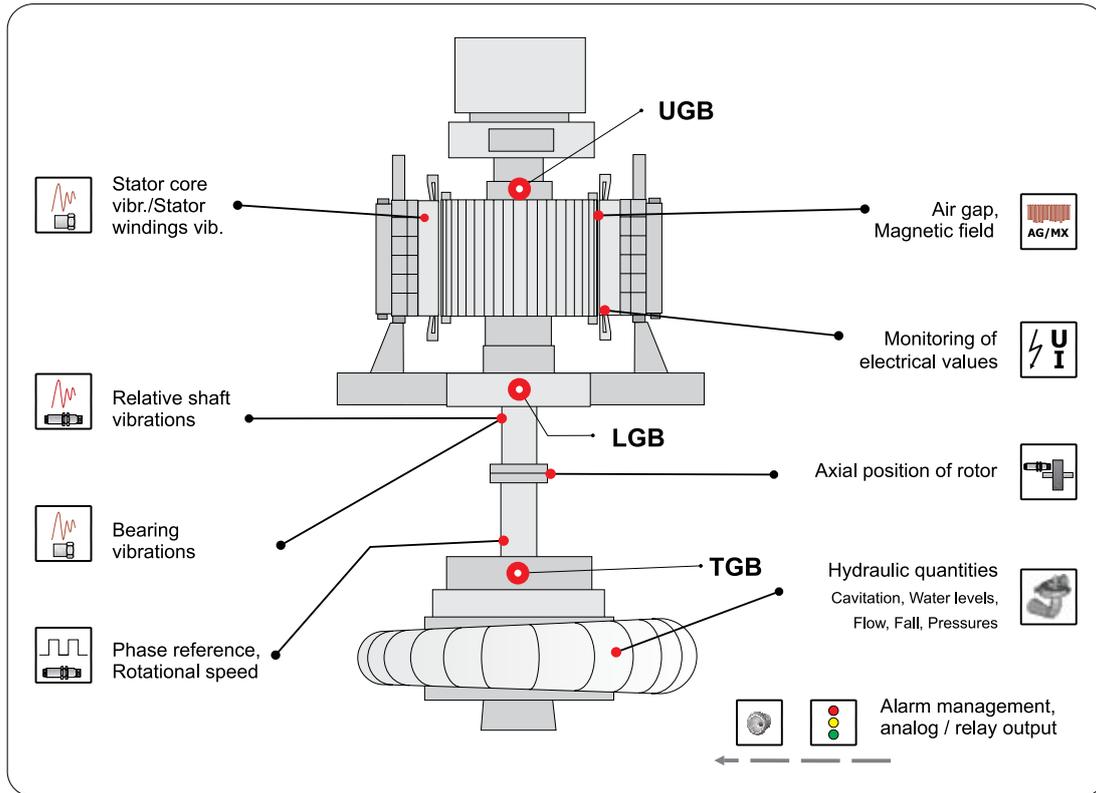


Major references

VIBRATION EXPERT SYSTEMS
CONSULTING
SYSTEM DESIGN



Vibrations

- Relative shaft vibrations
- Absolute bearing vibrations
- Stator vibrations
- Stator blades

Axial displacement

Bearing clearance

Air gap

Magnetic field

Partial Discharge

Cavitation

Hydraulic quantities on pipeline

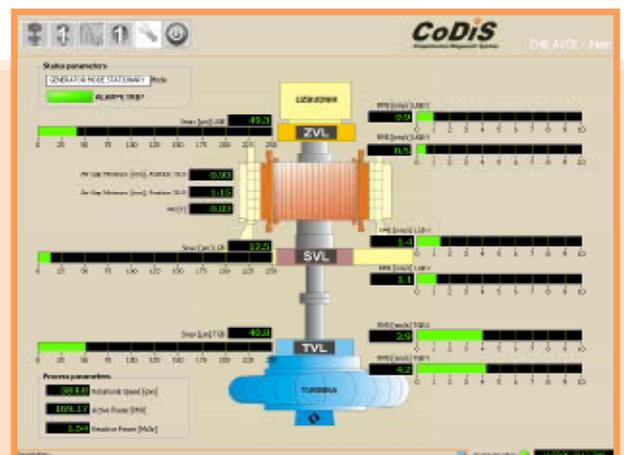
Electrical quantities

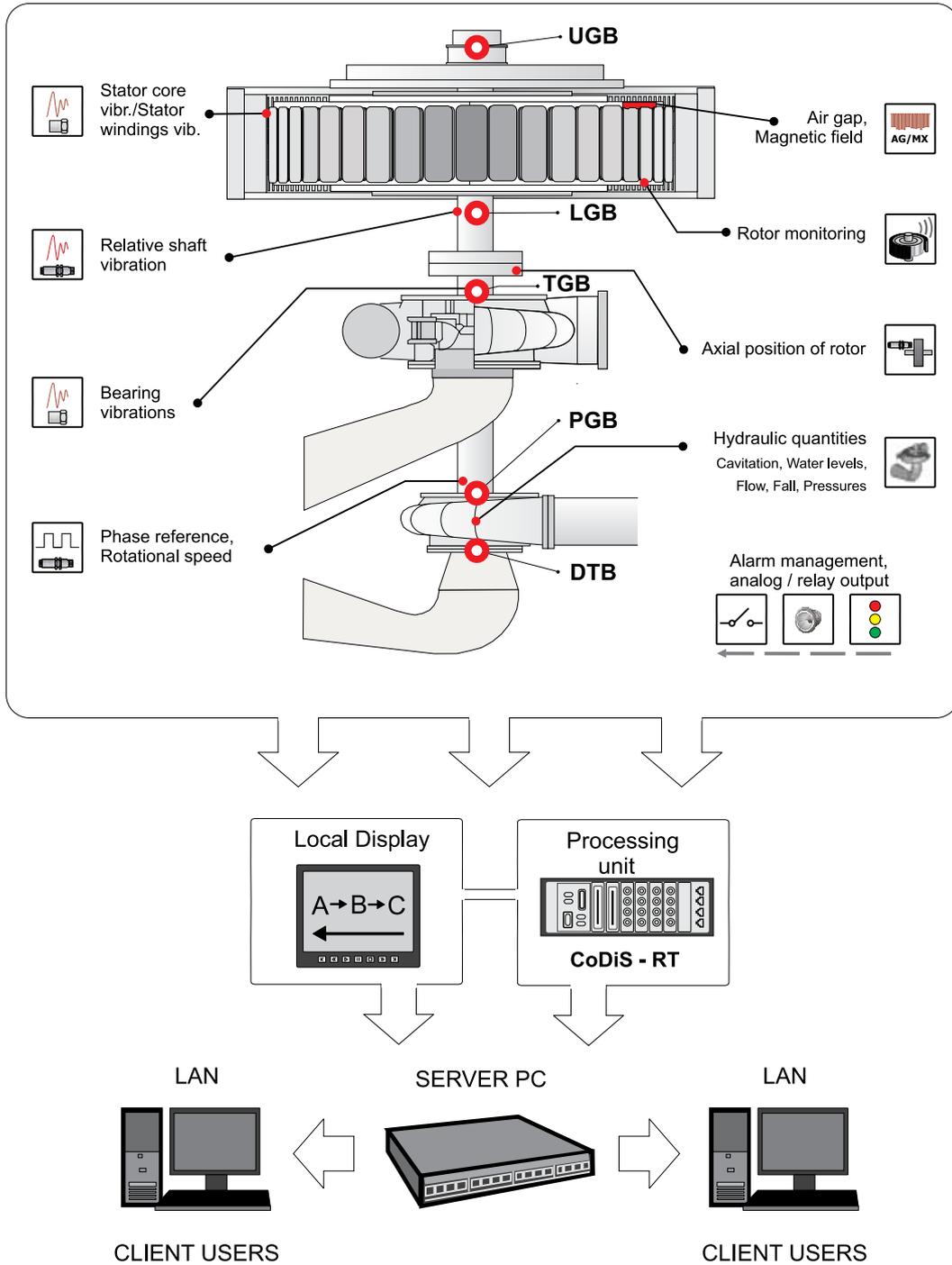
- Transient recording
- Power quality monitoring

Temperatures

Process quantities

- Active power
- Reactive power
- Pressures
- Water head





Vibrations

- Relative shaft vibrations
- Absolute bearing vibrations
- Stator vibrations
- Discharge valve

Axial displacement

Air gap

Magnetic field

Partial Discharge

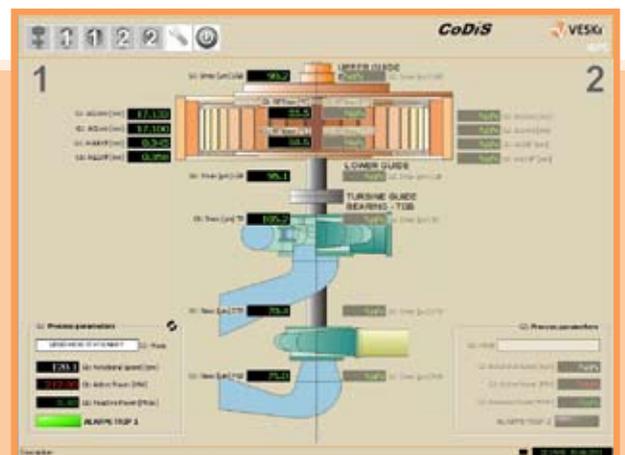
Temperatures

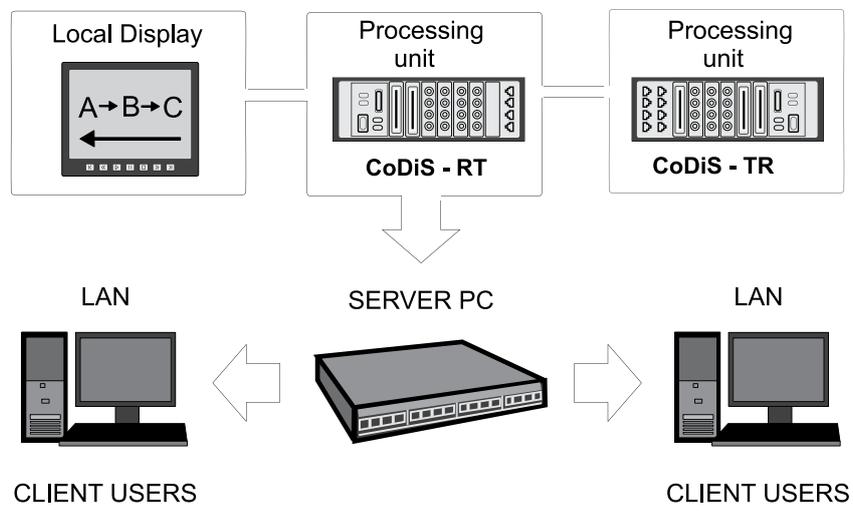
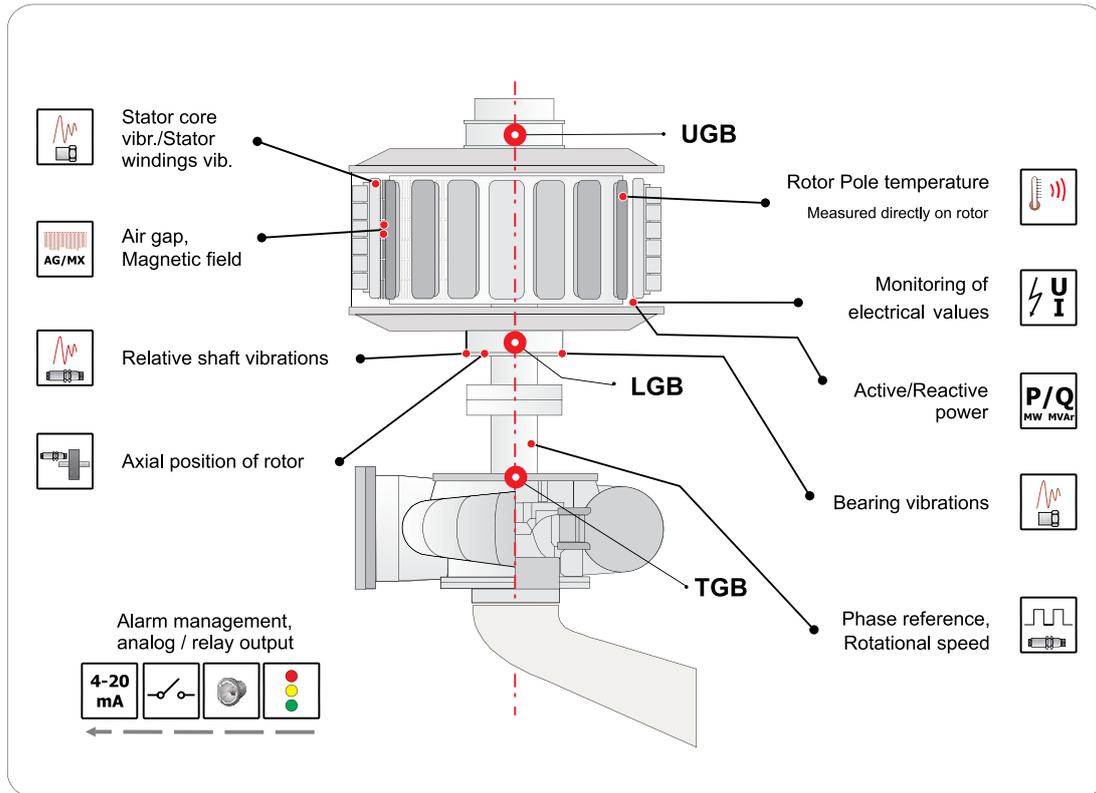
Process quantities

- Active power
- Reactive power
- Pressures
- Water head

Rotor pole temperatures

- temperature sensors on 50 poles
- temperature sensors on 49 pole interconnections





Vibrations

- Relative shaft vibrations
- Absolute bearing vibrations
- Stator vibrations

Axial displacement

Air gap

Magnetic field

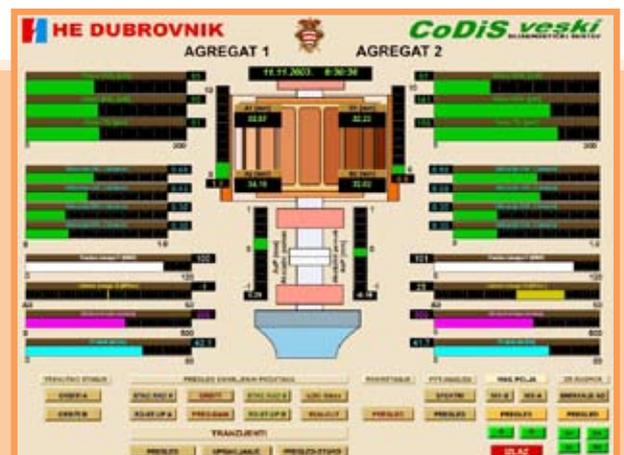
Electrical quantities

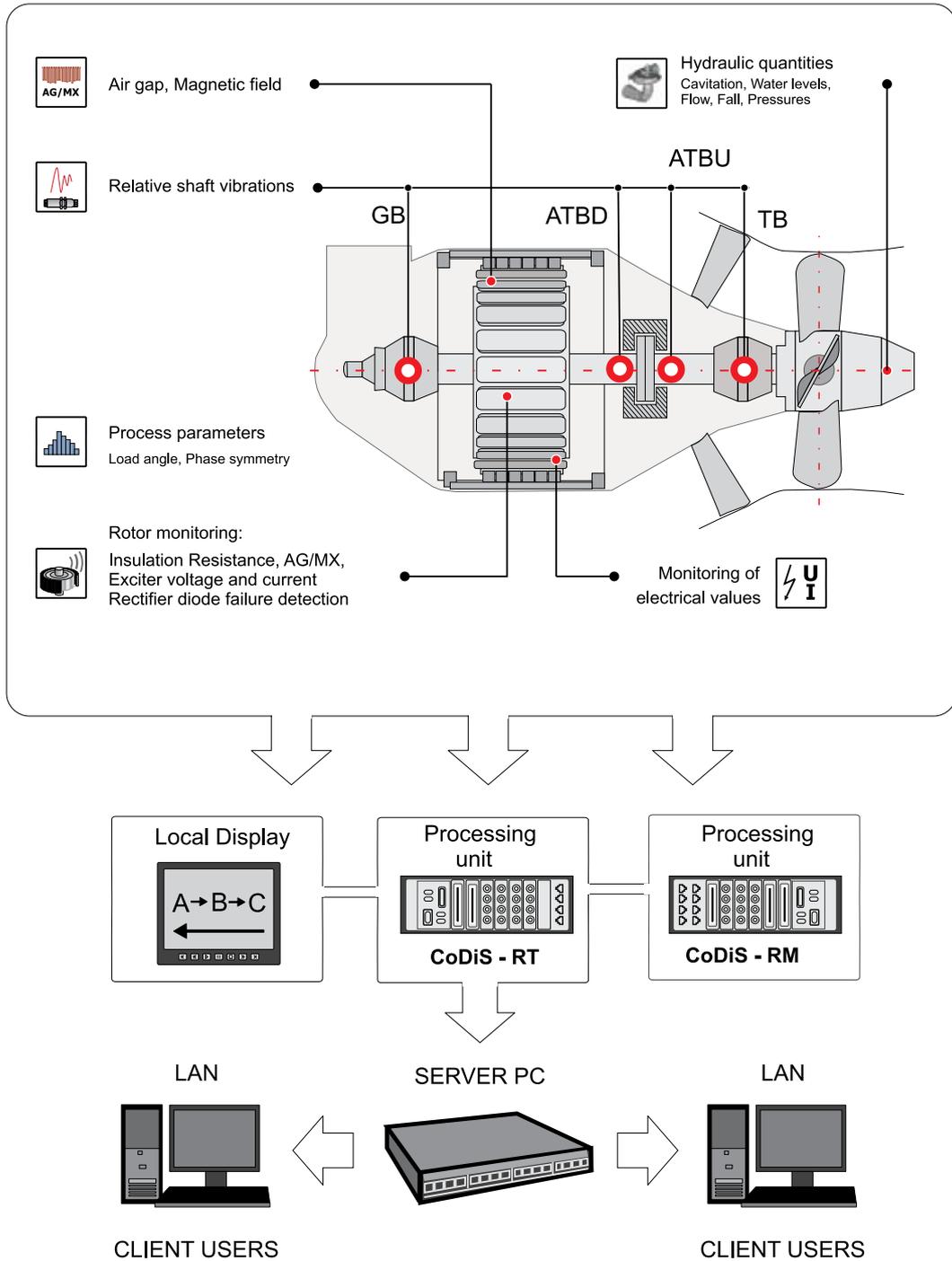
- Transient recording
- Power quality monitoring

Rotor pole temperatures

Process quantities

- Active power
- Reactive power
- Pressures
- Water head





Vibrations

- Relative shaft vibrations

Axial displacement

Air gap

Magnetic field

Electrical quantities

- Power quality monitoring

Rotor monitoring

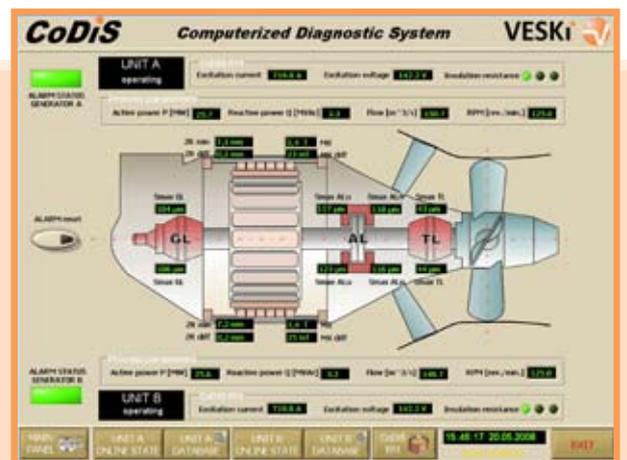
- Rotor pole temperatures
- Excitation current and voltage

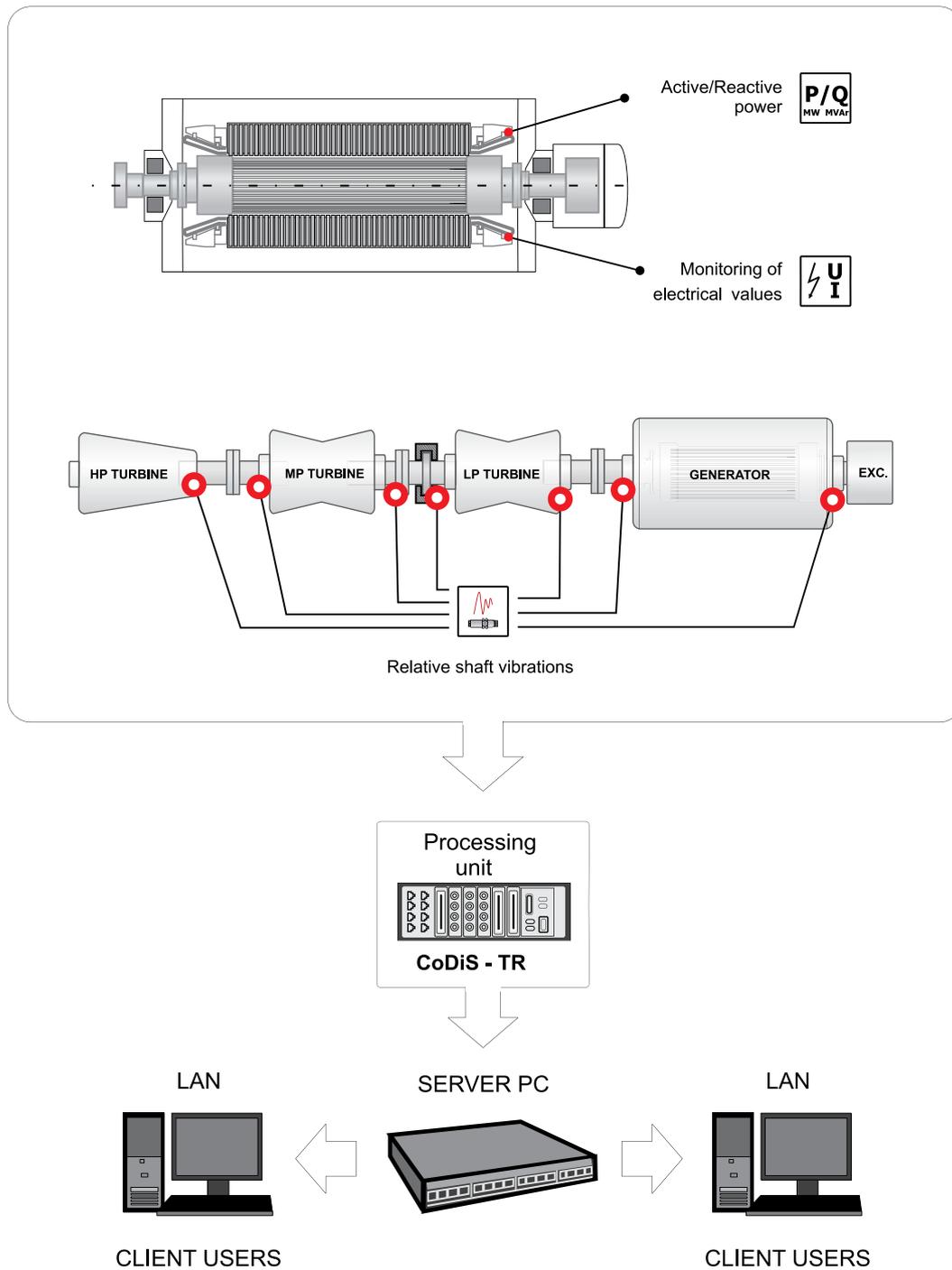
Insulation resistance

- Air Gap on rotor pole
- Magnetic field on rotor pole

Process quantities

- Active power
- Reactive power
- Pressures
- Water head



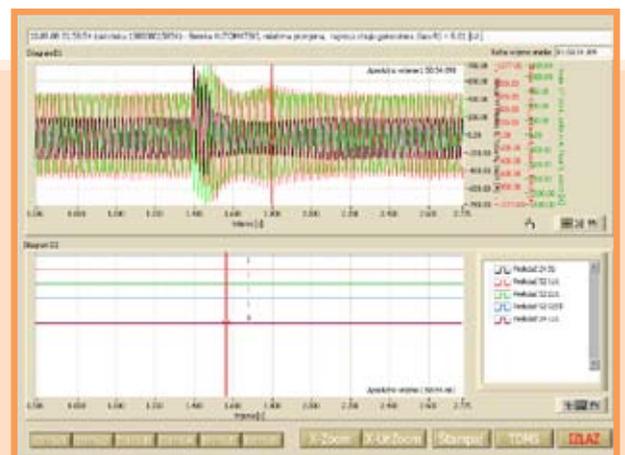


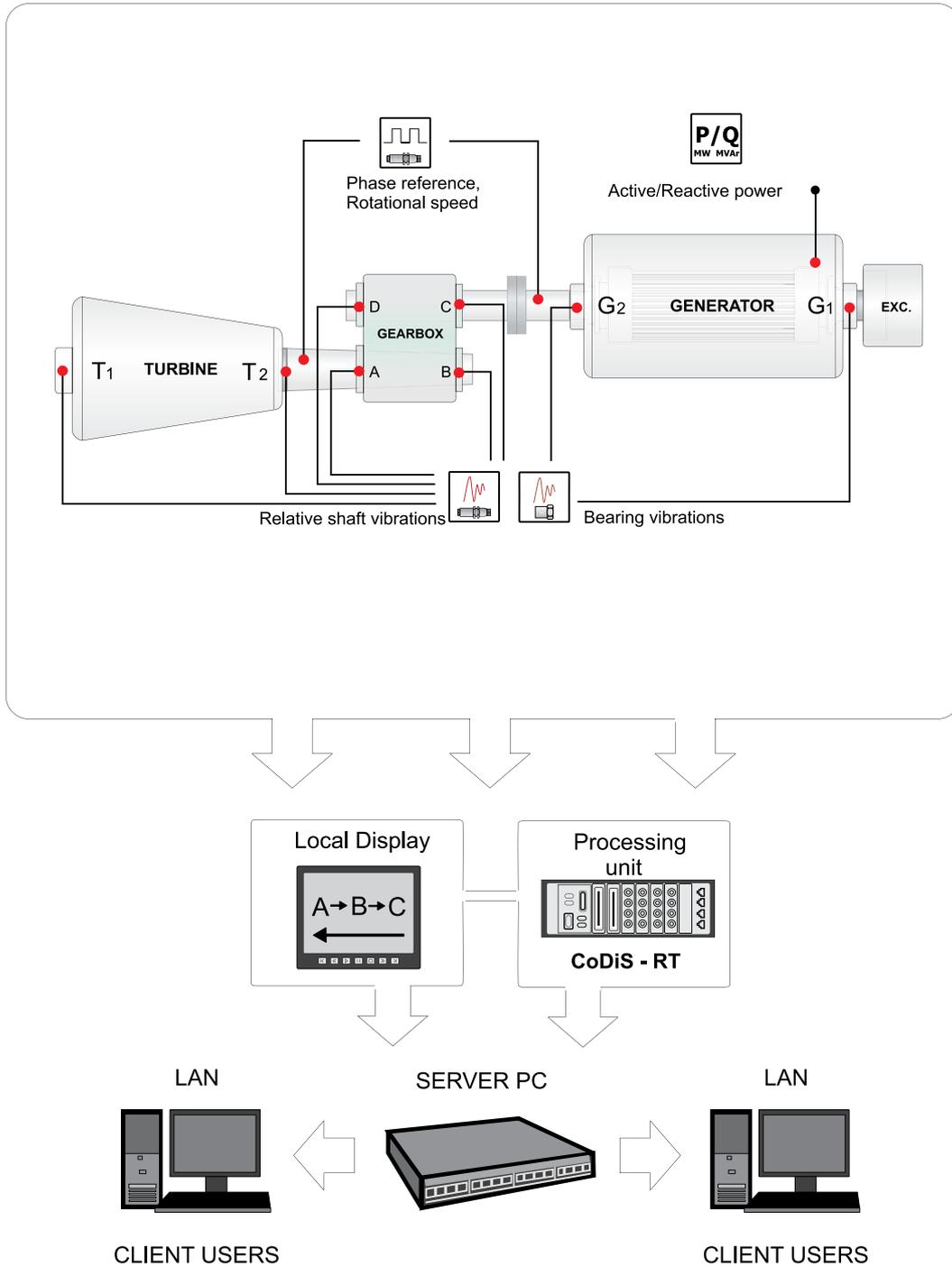
Vibrations

- Relative shaft vibrations

Electrical quantities

- Transient recording with vibration signals embedded
- Vibrations analysis in short term electrical transients
- Power quality monitoring
- Binary signals





Vibrations

- Relative shaft vibrations
- Absolute bearing vibrations

Electrical quantities

- Generator voltages
- Generator currents

Process quantities

- Active power
- Reactive power
- Temperatures



Solutions only



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