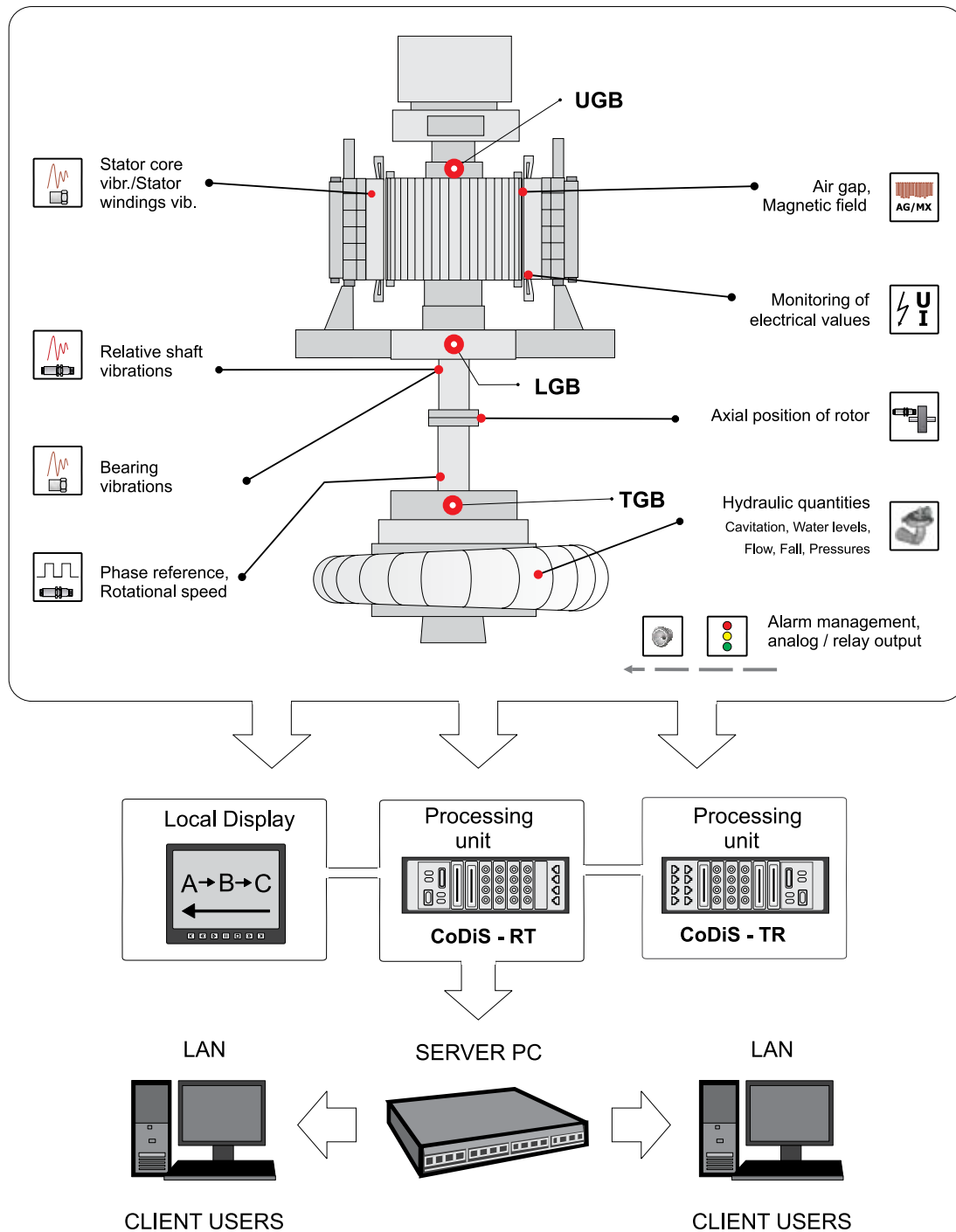


VIBRATION EXPERT SYSTEMS  
CONSULTING  
SYSTEM DESIGN



#### 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

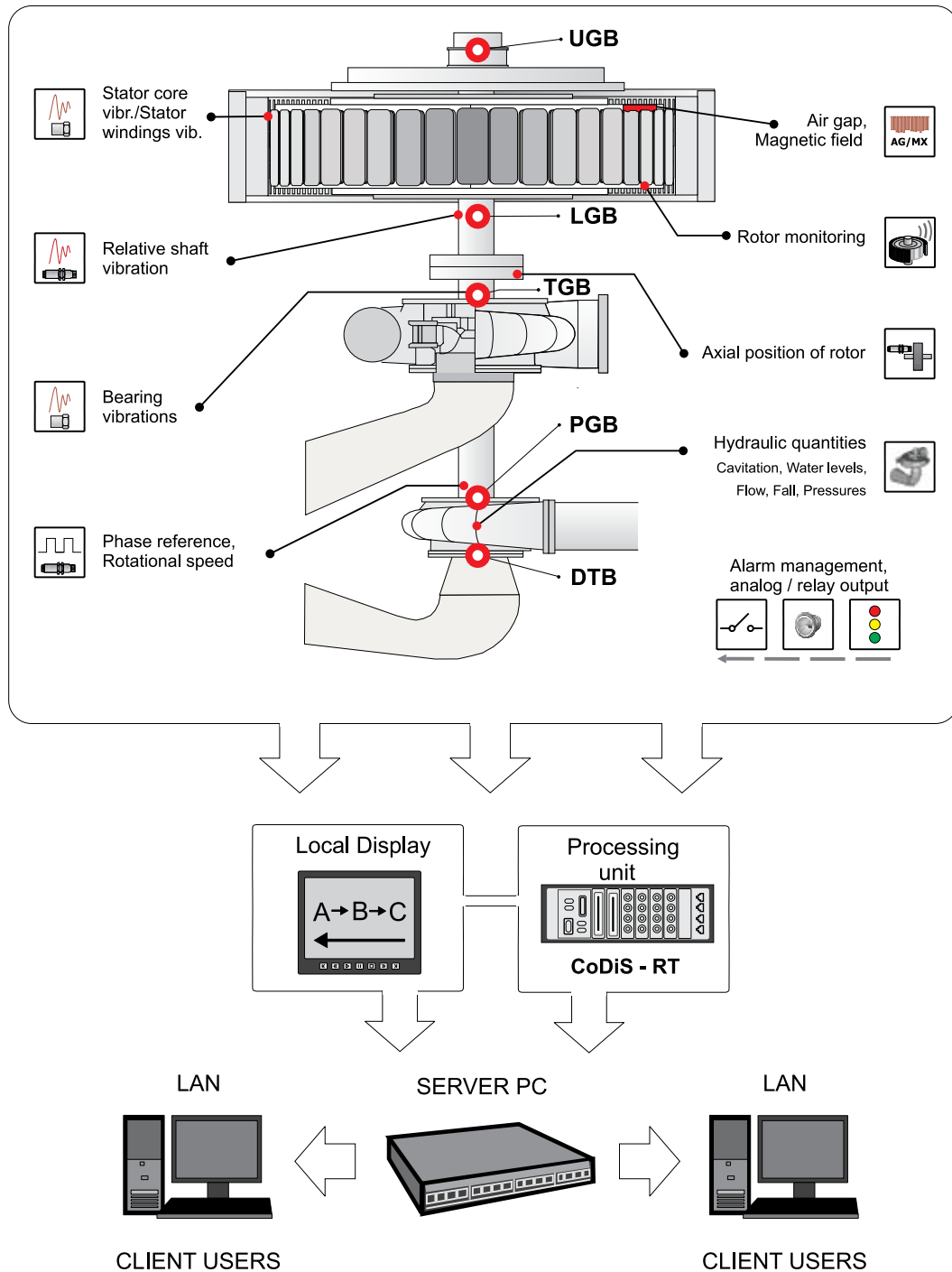
- Transient recording
- Power quality monitoring

#### 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

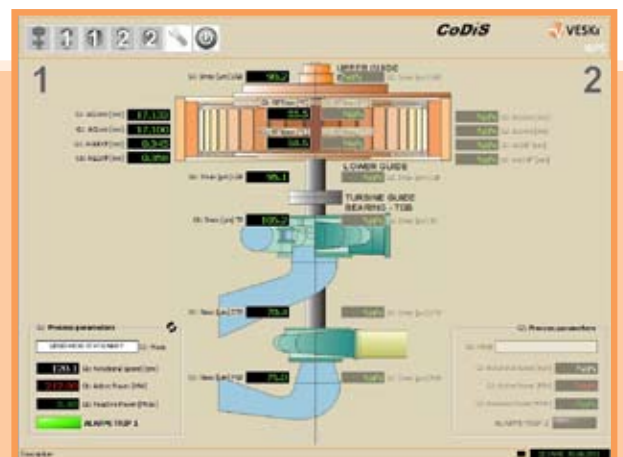
#### Temperatures

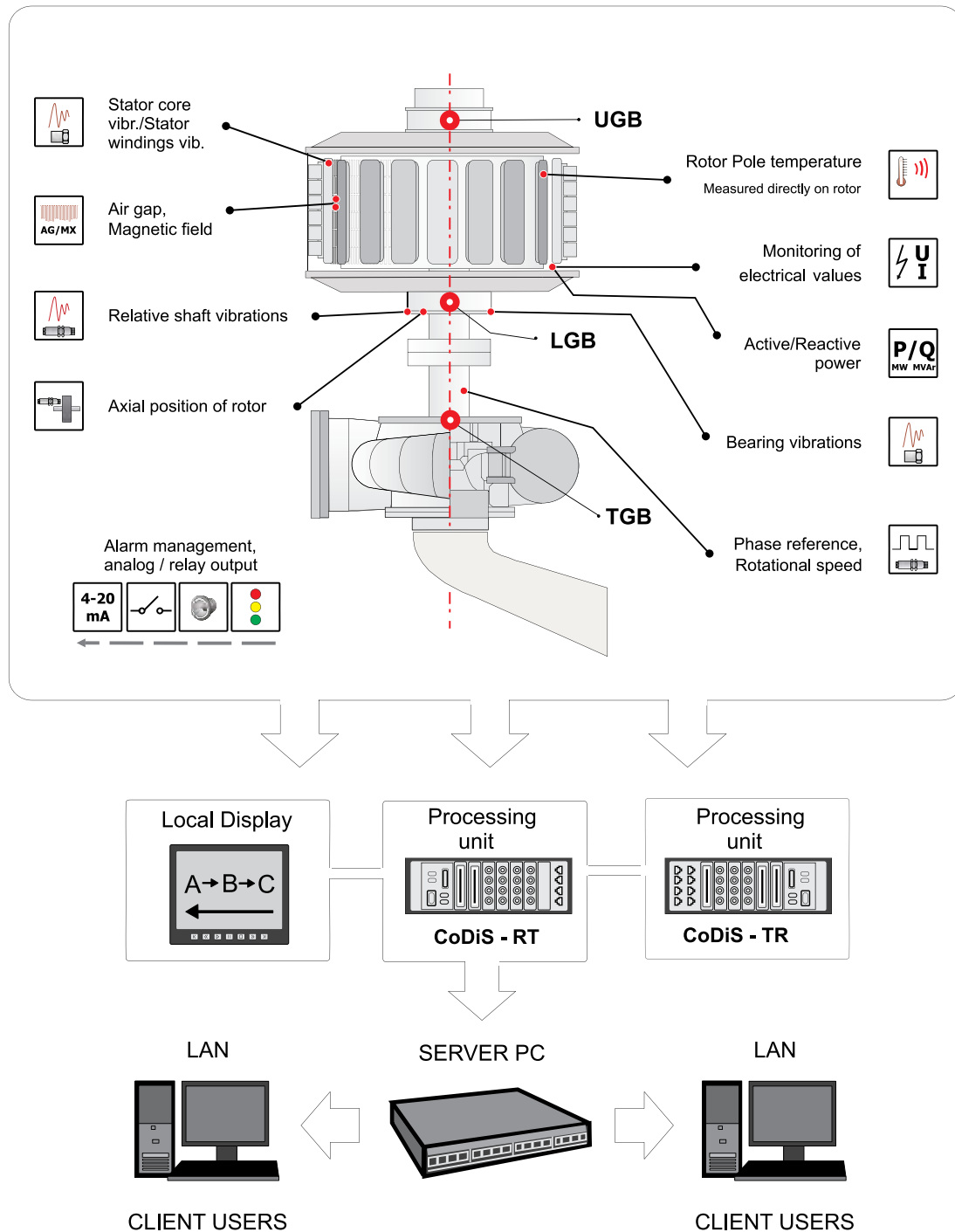
#### Process quantities

- 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

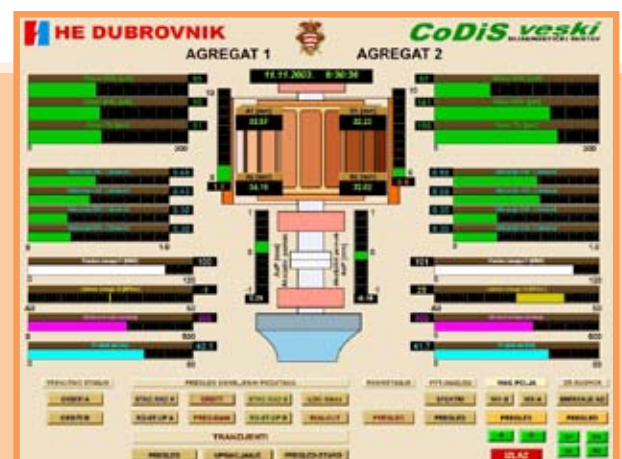
#### Electrical quantities

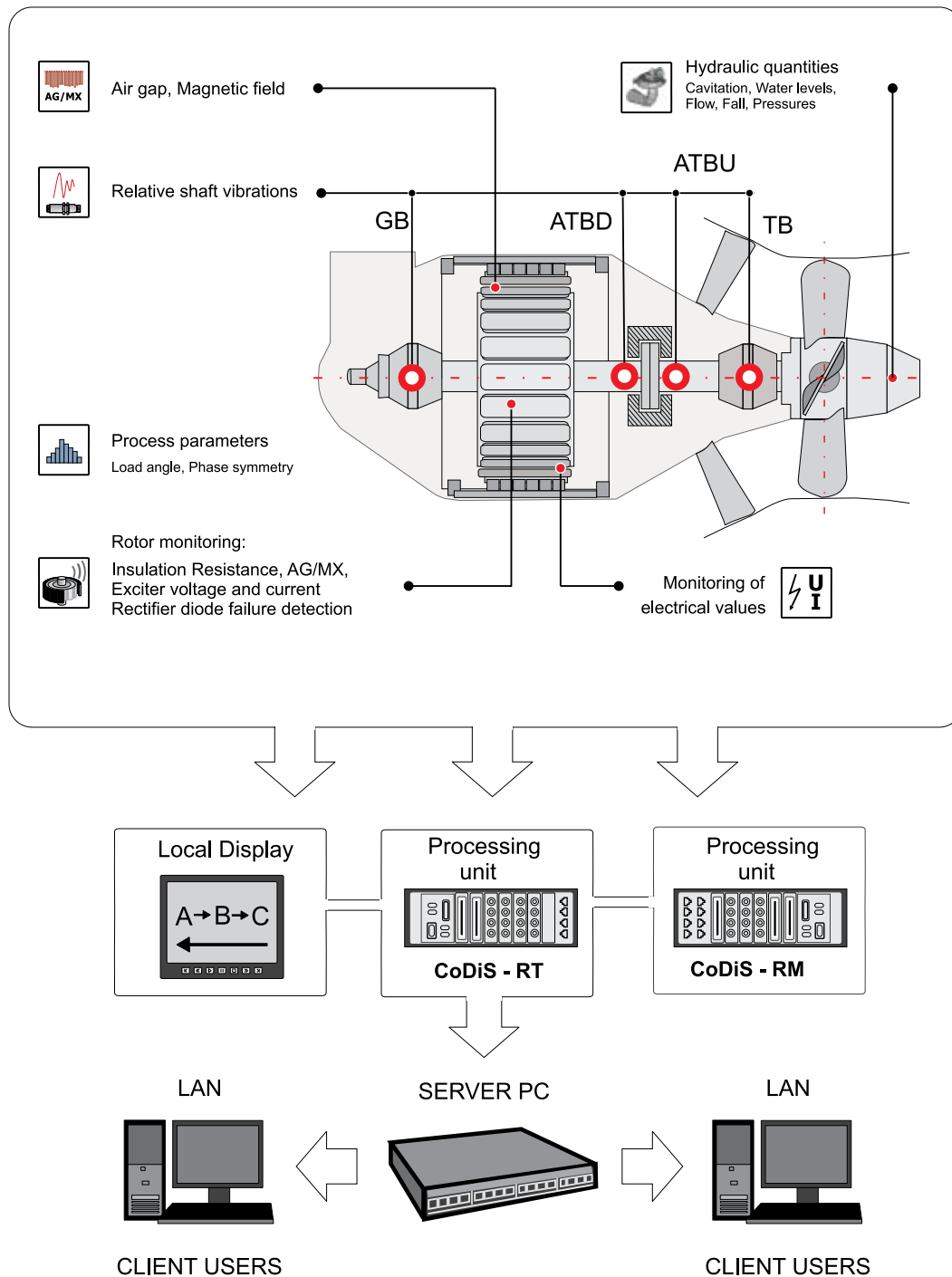
- Transient recording
- Power quality monitoring

#### 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

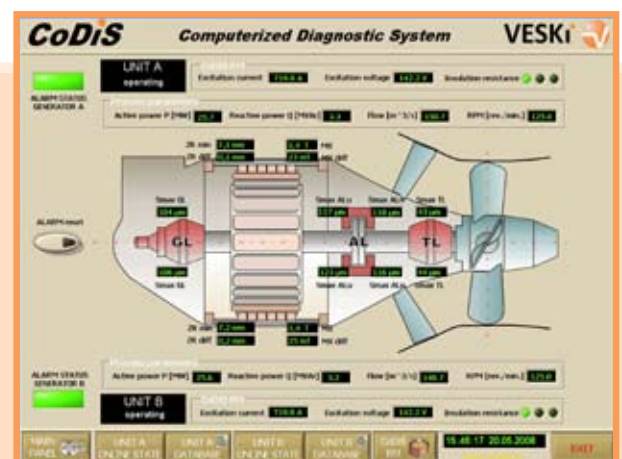
- Rotor pole temperatures
- Excitation current and voltage

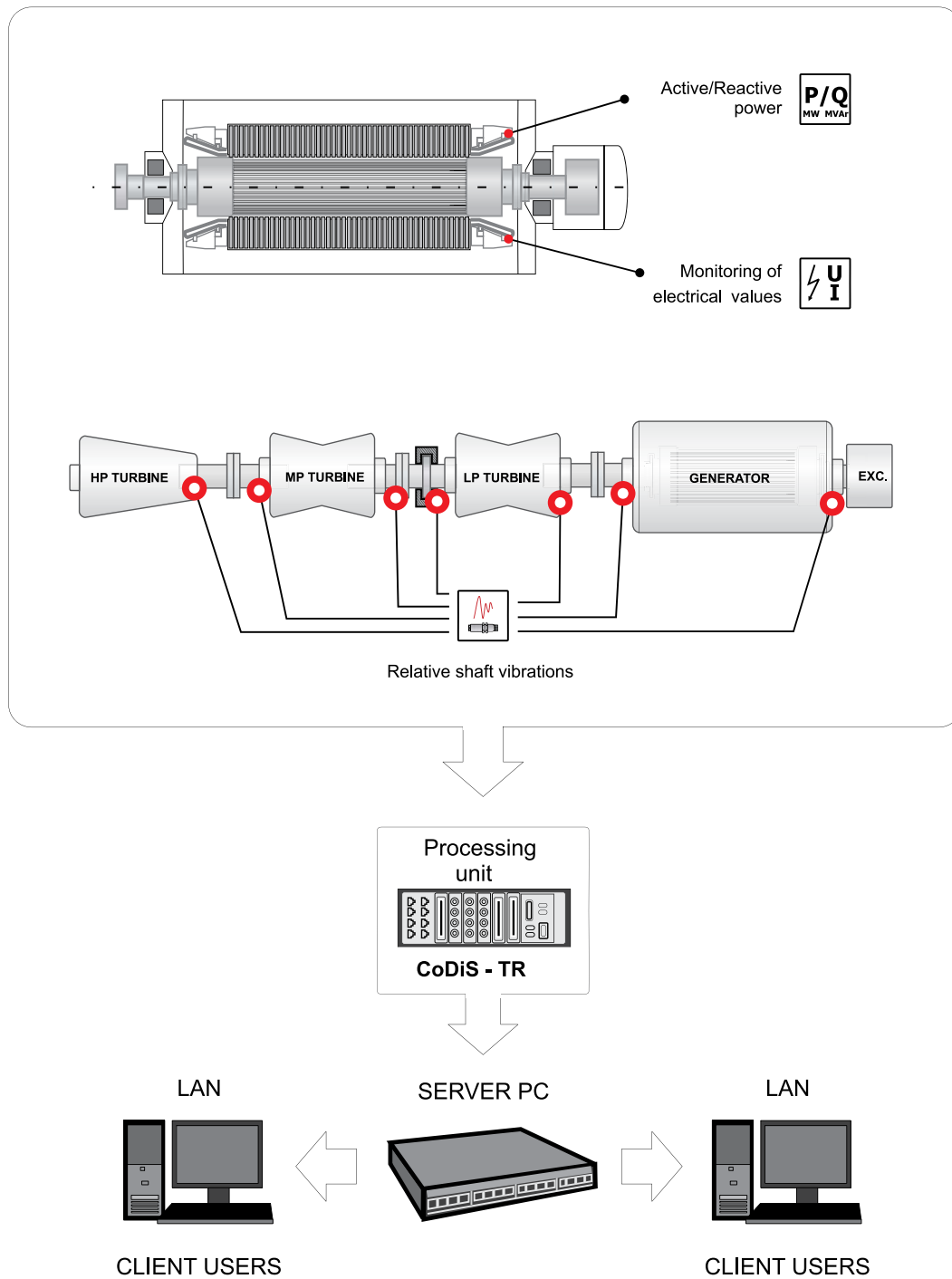
#### Insulation resistance

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

#### Process quantities

- Active power
- Reactive power
- Pressures
- Water head





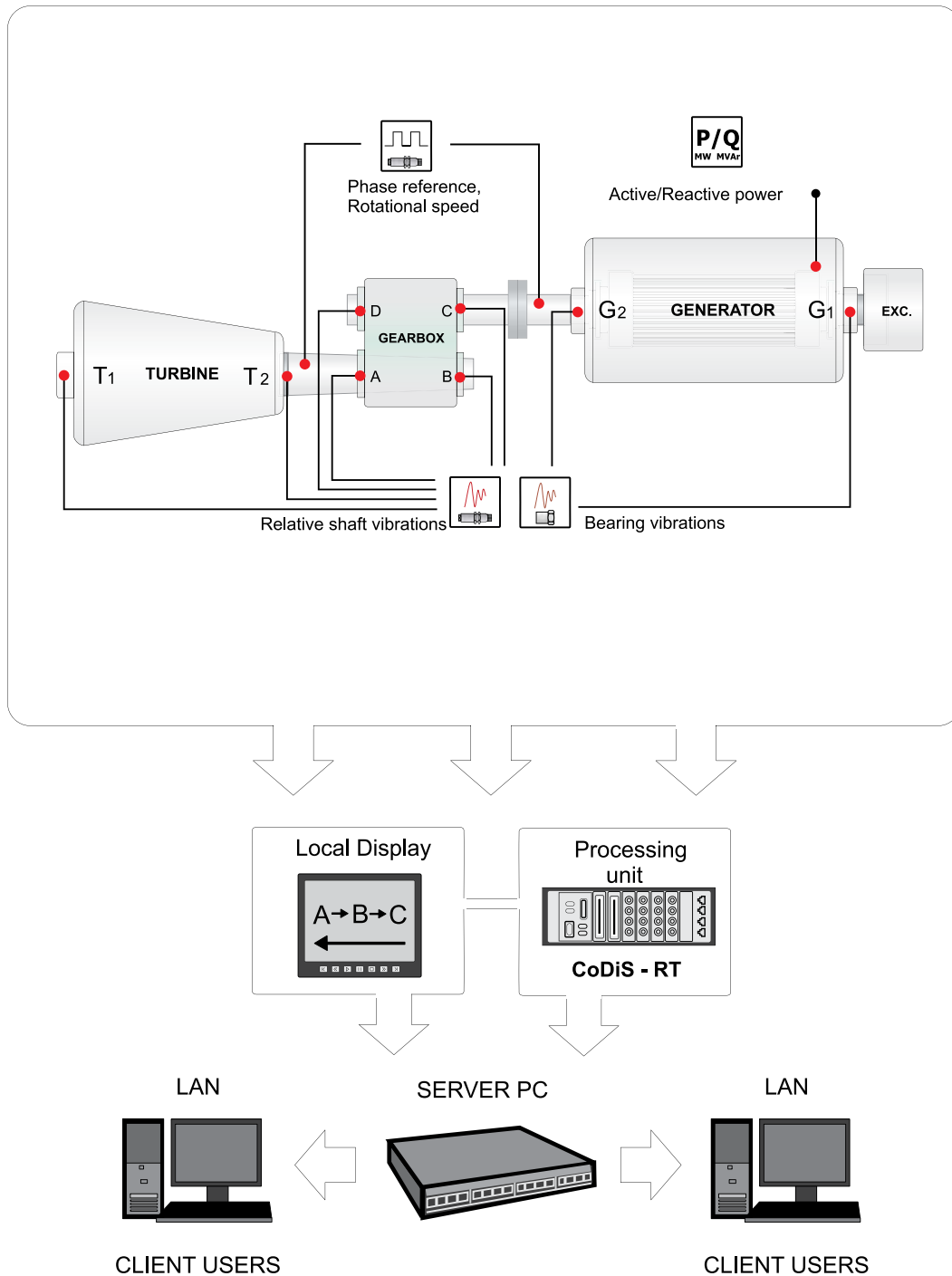
#### Vibrations

- Relative shaft vibrations

#### Electrical quantities

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





#### Vibrations

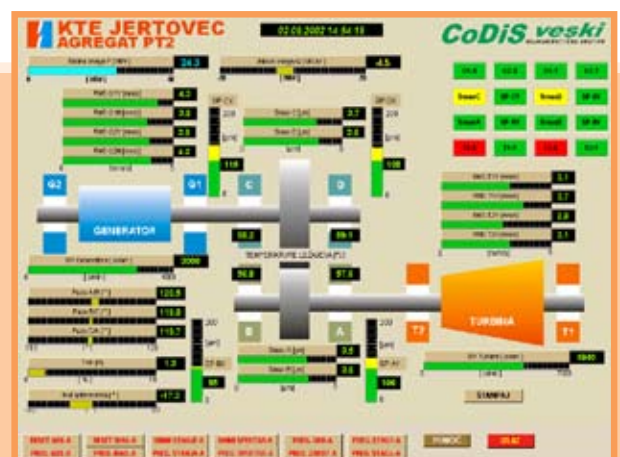
- Relative shaft vibrations
- Absolute bearing vibrations

#### Electrical quantities

- Generator voltages
- Generator currents

#### Process quantities

- Active power
- Reactive power
- Temperatures



Solutions only



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