Temperature measurement by means of IR-thermography

Description:
- Non-contact measurement of surface temperature
- High-resolution measurement with microscope lens (Infratec Vario Therm II)
- Fast measurement with handheld thermographic camera (Fluke Ti32)
- Live display as false color image on display or on laptop
- Result storage as single image or video
- Emission coefficients of measuring surface can be set in camera or evaluation software

Technical Data:

Infratec VarioTHERMO II:
- Spectral range: 3.4 – 5 µm
- PtSi-detector: 256 x 256 Pixel
- Measuring range:
  - -25 ... 1200 °C (with standard lens)
  - 50 ... 250 °C (with microscope objective)
- Thermal resolution: < 0.1 K (by 30 °C)
- Optical resolution: 25 µm (with microscope objective)

Available Test Methods:
- Measurement of the temperature in the air-side contact area of the seal and shaft
- Measurement of temperature in the contact area of the seal and shaft (by sapphire shaft with deflection mirror)
- Monitoring of the temperature near the contact area during endurance tests by means of pyrometer