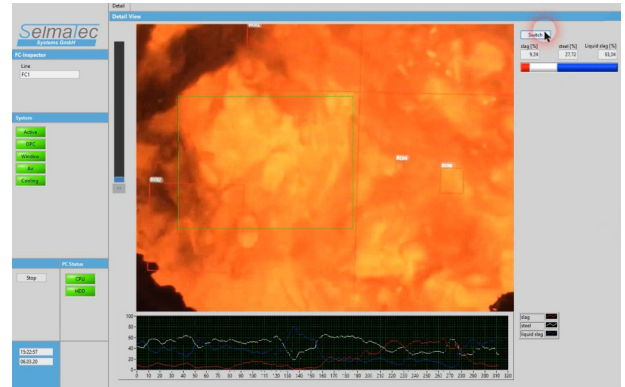


BENEFITS

- **Thermal and visual monitoring** by means of robust process interior camera
- **Early detection** of process anomalies
- **Water or air cooled** for temperatures up to 2000 °C
- **Open system** for individual expansion
- **Automatic retraction unit**
- **Variable interface connections** to customer controls
- **Configurable zones for better monitoring**
- **Intuitive** software operation
- **High image quality** thanks to a air purge unit



DESCRIPTION / EXAMPLE OF USE

The **FC-Inspector** combines video inspection and thermography by means of the FC-Inspector software and a sensor unit. The endoscopic camera modules can be air or water cooled and placed in the hot area. In case of failure of the cooling medium, the camera probe is automatically retracted from the hot area.

Probes of different lengths and with different optics (field of view) are available for individual use. The software of the FC-Inspector allows intuitive operation including automatic or manually selectable exposure time control for setting the contrast ratios.

Within the image display, ROIs (regions of interest) for temperature measurement can also be configured for measuring systems. Limit values can also be stored and alarms can be triggered in the event of over/underrange. In the event of an alarm, automatic video sequence recording can also be performed. System and alarm protocols are available as well as the possibility to activate a web server. Interfaces like OPC or Profinet are available.

MEASURING PARAMETERS

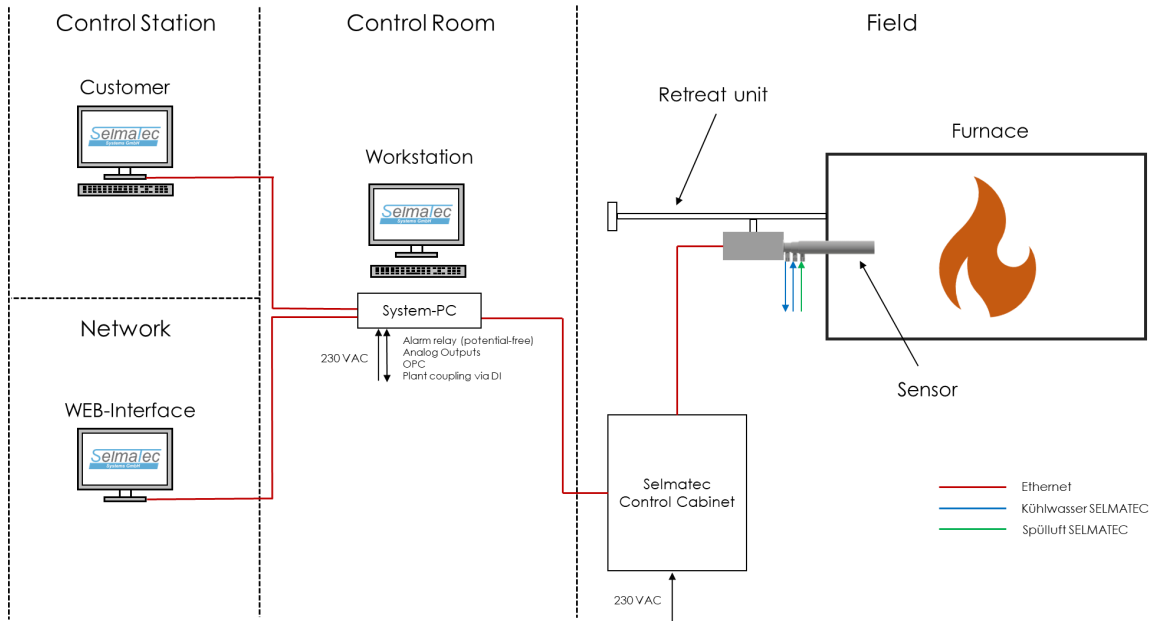
Measuring range	800 ... 2000 °C
Permissible ambient temperature sensor	-30 - 60 °C
Permissible temperature in the furnace	Bis 2000 °C
Resolution	1280 (H) x 960 (V)
Field of view	120° (H) 66° (V) (92° D)
	90: 90°, 72°, 54°
	60: 60°, 48°, 36°
	30: 35°, 28°, 21°
Electrical connections	1 x M12 (4 pole)
	1 x M12 (Ethernet)

GENERAL PARAMETERS

Cooling media (water cooled)	Amount of cooling water >500 l/h Amount of purge air >15 Nm³/h
Cooling media (air cooled)	Amount of cooling water >35 Nm³/h Amount of purge air >15 Nm³/h
Air cooling	>15 Nm³/h
Permissible pressure in the furnace	-100 ... + 100 mbar
Interfaces	OPC, Profinet, GigE
Water connection	2 x G1/2"



EXAMPLE LAYOUT



DIMENSIONS SENSOR UNIT

