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Sense NEWS

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Fever Detection Systems

FeverSens

The FeverSENS System is designed for mass screening of public areas. It is used to find individuals with higher body temperature. As a group of people walk in front of camera head, thermal and visual images are displayed on the nearby monitor. Our FeverSENS system consist of a fixed thermal imaging camera, visual camera and thermal image processing (fever detection) software .The system is housed in an ergonomic kiosk, for free standing operation.



Technical Specifications

- Resolution-> 384x288
- Lens Option-> FL15 mm $f/1.0$, FL13 mm $f/1.0$
- Field of View-> $24.6^\circ \times 18.5^\circ$, $28.2^\circ \times 21.3^\circ$
- Temperature Measurement Range-> 0 to 50°C
- Accuracy-> ± 0.5

Thermocouple for Gasification Process Temperature Measurement

For measuring and controlling temperature under gasifier reactor temperature sensor protection tube should be strong enough to sustain under high pressure and temperature condition. Because metal become soft due to high temperature and rupture because of available pressure. For example around 80 bar pressure and 1500°C its very difficult or near to impossible to get a long life by metallic thermowell. That's why ceramic is best material as a protection tube under those application, temperature resistivity and strength of ceramic tube way much better than metallic thermowell like SS, Inconel, HRS etc.

We at Tempsens have designed a thermocouple model for precise temperature measurement inside gasification process. The design consist of a sapphire tube inside ceramic well, for increasing strength and protecting sensor from harmful gases which are formed inside reactor. Porous nature of ceramic will allow gas to pass but sapphire tubes surface is resistant to it which in turn protects the sensing element from degradation with time.



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