Temperature Measurement of Heating Furnace through Fire

- Internal temperature measurement is required while furnace is active, in order to determine maintenance schedule.
- Furnace thermocouple is attached, but temperature of other positions are also concerned.

Challenge

- Maintenance free by un-cooled sensor
- Quick start up after power on
- Special wavelength (3.7〜3.9μm) band pass filter allows measurement through fire!
- Protective shield keeps operator safe from radiant heat

Internal wall surface is heated by complete combustion flame (Approx. 1000℃) radiated from nozzle.

Real-time abnormal temp. check of nozzle and wall surface is available through flame.

*Measured by model R300BP-TF

CBM (Condition Based Maintenance) is possible while furnace is running

AVIR-AP-003(E)

R300BP-TF Thermal Image

Visible Image
Avio offers most suitable model for all of your measurement needs.

**R300BP Series** for Special Measurement

- **Measurement through fire**
- Wavelength: 3.7 to 3.9μm
- Range: 400〜1500℃
- Resolution: 4.0℃ at 400℃
- Accuracy: ±4%
- Number of Pixels: 320 x 240

**R300BP-TF**
- Measurement of flame
- Wavelength: 4.25 to 4.75μm
- Range: 600〜2000℃

**R300BP-OF**
- Measurement through glass
- Wavelength: 3.0 to 3.5μm
- Range: 500〜1000℃

**R300BP-TG**
- Measurement of glass surface
- Wavelength: 5.2 to 7.4μm
- Range: 400〜1500℃

**R300BP-OG**
- Please ask us of your requirements such as band pass filters and/or additional range of 0〜500℃ (8-14μm)

**Frequency**: Max 1KHz (Windowing時)

**Sensitivity**: 0.025℃

**Resolution**: 640 x 512

**FOV**: 21.7°×17.5°

**IFOV**: 0.6μm

**H9000 High-spec IR Camera**

**Visible Image**

**R300BP**

**Thermal Image**

**R300BP-TF**

**Thermal Image**

**R300BP-OF**

**Thermal Image**

**R300BP-TG**

**Thermal Image**

**R300BP-OG**

**Thermal Image**

---

**WARNINGS & CAUTIONS**

- Before using this product, please carefully read the provided Operation Manual, "WARNINGS & CAUTIONS" section to ensure proper operation.
- Please do not place the product in high temperature, high humidity or high inert gas environments.

Distributor:

http://www.avio.co.jp/english/