**PyroNFC**

Smartphone Configurable Infrared Temperature Sensor

- Non-contact industrial temperature sensor
- Fully configurable via iOS / Android app
- Choice of voltage or thermocouple outputs
- Simultaneous open collector alarm output
- Measures from 0°C to 1000°C, accurately and consistently
- Extremely small, with side-entry cable: ideal for mounting in tight spaces
- Fast response time: 125 ms
- Low cost, high performance
- Operates in ambient temperatures up to 80°C without cooling
- Form factor optimised or brake testing applications, plus many others

### GENERAL SPECIFICATIONS

- **Temperature Range**: 0 to 1000°C (rescalable on model PN151)
- **Output**: Model PN151: 0-5 V DC, 1-5 V DC or 0-10 V DC, linear with measured temperature, configurable and rescalable via app
  
  Model PN151K: Type K Thermocouple

- **Alarm Output**: Open collector alarm output with temperature threshold and hysteresis, configurable via app

- **Field of View**: 15:1 (see OPTICS)

- **Accuracy**: ± 1.5% of reading or ± 1.5°C, whichever is greater

- **Repeatability**: ± 0.5% of reading or ± 0.5°C, whichever is greater

- **Response Time**: 125 ms (90% response)

- **Configuration**: Via iOS/Android app using NFC-equipped smartphone/tablet

- **Emissivity Setting**: Adjustable 0.2 to 1.0 via app

- **Max Span (Voltage Output Range)**: 1000°C

- **Min Span (Voltage Output Range)**: 100°C

- **Spectral Range**: 8-14 µm

- **Max. Supply Voltage**: 28 V DC

- **Min. Supply Voltage (at Sensor)**: 12 V DC (for 10 V output)  
  6 V DC (for 5 V or thermocouple output)

- **Max Current Draw**: 7 mA

### ENVIRONMENTAL & CONFORMITY SPECIFICATIONS

- **Environmental Rating**: IP65

- **Ambient Temperature Range**: 0°C to 80°C

- **Relative Humidity**: 95% max. non-condensing

- **Electromagnetic Compatibility**: EN61326-1, EN61326-2-3 (Electrical Equipment for Measurement, Control and Laboratory Use - EMC Requirements - Industrial)

- **RoHS Compliant**: Yes

### APP SPECIFICATIONS

- **Configurable Parameters**
  - Temperature range (linear output)
  - Linear voltage output type and scale
  - Alarm output threshold and hysteresis
  - Emissivity setting
  - Reflected temperature

- **Temperature Units**: °C / °F

- **Signal Processing**
  - Averaging Period (0.125 to 60 seconds)
  - Peak / Valley Hold
  - Hold Period (0.125 to 1200 seconds)

- **Temperature Measurement**: Touch NFC device against sensor for in-app temperature updates (updates continuously on Android)
**DIMENSIONS AND CONNECTIONS**

**MODELS WITH TYPE K THERMOCOUPLINE OUTPUT**

Touch NFC smartphone here

**MODELS WITH VOLTAGE OUTPUT**

Sensor dimensions as above

**OPTICS**

Diameter of target spot measured versus distance from sensing head (90% energy)

**ACCESSORIES**

Fixed mounting bracket FBN
Adjustable mounting bracket ABN
Air purge collar APN
3-point UKAS traceable calibration certificate CALCERTA

**MECHANICAL SPECIFICATIONS**

Construction
Black anodised aluminium and ABS

Cable Length
1 metre standard (longer lengths available to order)

Weight
65 g including 1 m cable

**MODEL NUMBERS**

Optional

Cable Length (blank)
Standard 1 metre cable length
Extended cable, length n metres (30 m max)
User may extend cable further

Outputs (blank)
Configurable 0-5 / 1-5 / 0-10 V DC output for measured temperature, and open collector alarm output

Field of view
151 15:1 divergent optics

Series
PN PyroNFC infrared temperature sensor, configurable via NFC