PyroNFC Smartphone Configurable Infrared Temperature Sensor



APP FEATURES



- Continuously read temperature from PyroNFC sensors
- Instantly configure PyroNFC sensors without powering them
- Simply touch the sensor with the device to communicate
- Compatible with NFC-equipped
 Android devices
- Get the app free from Google Play Store (search for "PyroNFC")

GENERAL SPECIFICATIONS

Temperature Range 0 to 1000°C Outputs 2 outputs, configurable via NFC: 0-5 V DC or 0-10 V DC output, linear with measured temperature, rescalable, and: Open collector alarm output with temperature threshold and hysteresis **Field of View** 15:1 (see OPTICS) Accuracy \pm 1.5% of reading or \pm 1.5°C, whichever is greater Repeatability \pm 0.5% of reading or \pm 0.5°C, whichever is greater Response Time, t90 125 ms Configuration Via Android app using NFC-equipped device (e.g. smartphone or tablet) Emissivity Adjustable via app **Emissivity Setting Range** 0.2 to 1.0 Max Temperature Span (Linear Output) 1000°C Min Temperature Span (Linear Output) 100°C Spectral Range 8-14 um Max. Supply Voltage 28 V DC Min. Supply Voltage (at Sensor) 12 V DC (for 10 V output) 6 V DC (for 5 V output) Max Current Draw 7 mA

- Non-contact industrial temperature sensor
- Fully configurable via smartphone app
- Voltage output (linear with temperature) and open collector alarm output. Both can be used simultaneously
- 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 for brake testing applications, plus many others

ENVIRONMENTAL

Environmental Rating IP65 Ambient Temperature Range 0°C to 80°C Relative Humidity 95% max. non-condensing

CONFORMITY

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

RoHS Compliant Yes

APP

Configurable Parameters

Temperature range Linear voltage output type and scale Alarm output threshold and hysteresis Emissivity setting Reflected temperature **Temperature Units**

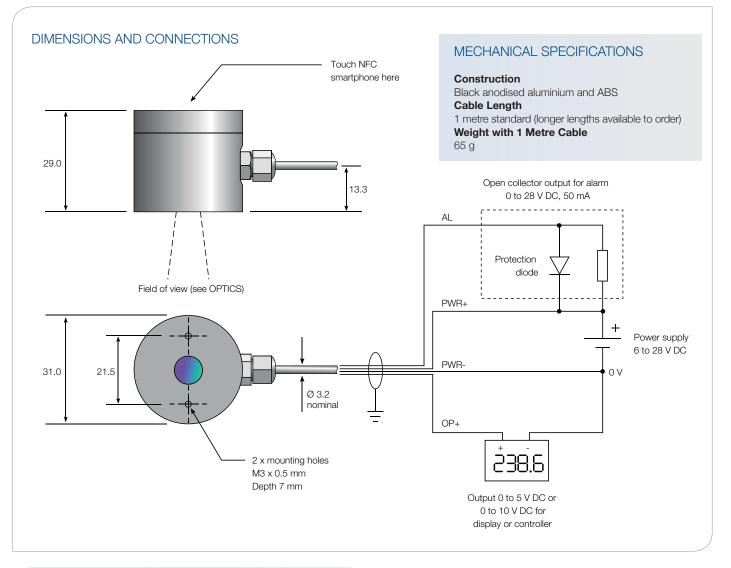
°C/°F

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

Real Time Temperature Reading

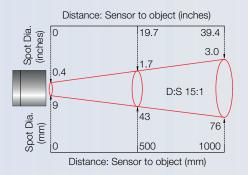
Hold NFC device against sensor for continuous in-app temperature updates



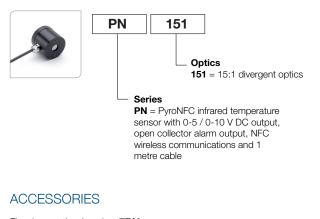


OPTICS

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



MODEL NUMBERS



Fixed mounting bracket **FBN** Adjustable mounting bracket **ABN** Air purge collar **APN** 3-point UKAS traceable calibration certificate **CALCERTA** Extended cable (30 m max) **PNCE**