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

APP FEATURES

Last measured 10/12/2015/33/44 Image: Construction of the senser Image: Construction of the senser Target Temperature Output and Alarm Image: Construction of the senser Output and Alarm Image: Construction of the senser Output and Alarm Image: Construction of the senser Output and Alarm		
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	Emissivity Settings	Output Processing
Read from Sensor Write to Sensor		
	Read from Sensor	Write to Sensor

- Read the measured 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 and iOS devices
- Get the app free from Google Play Store or . Apple App Store (search "PyroNFC")

GENERAL SPECIFICATIONS

Temperature Range

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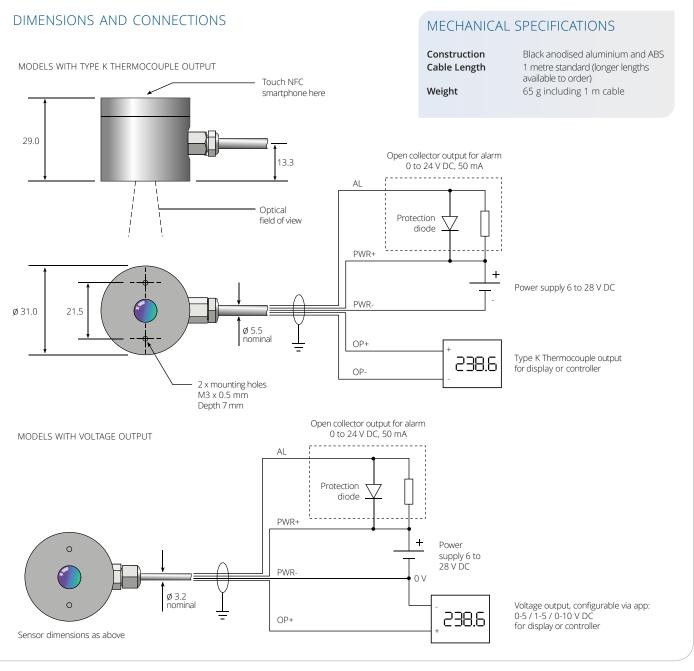
Output	Model PN151: 0-5 V DC, 1-5 V DC or 0-10 V DC, linear with measured temperature, configurable and rescalable via app
	Model PN151K: Type K Thermocouple
Alarm Output	Open collector alarm output with temperature threshold and hysteresis, configurable via app
Field of View	15:1 (see OPTICS)
Accuracy	\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	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

0 to 1000°C (rescalable on model PN151)

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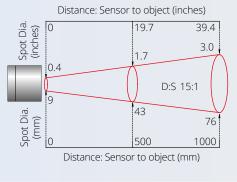
ENVIRONMENTAL & CONFO	RMITY SPECIFICATIONS
Environmental Rating	IP65
Ambient Temperature Range	0°C to 80°C
Relative Humidity	95% max. non-condensing
Electromagnetic Compatibility	EN61326-1, EN61326-2-3 (Electrical Equipment for Measurement, Control and Laboratory Use - EMC Requirements - Industrial)
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)





OPTICS

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



Parts Ihr Schweizer Industriepartner

ACCESSORIES

Fixed mounting bracket **FBN** Adjustable mounting bracket **ABN**

Air purge collar **APN**

3-point UKAS traceable calibration certificate CALCERTA

MODEL NUMBERS

info@digiparts.ch

