iCelsius°
Wireless

Extend your senses with Wi-Fi sensors

Technical Specifications
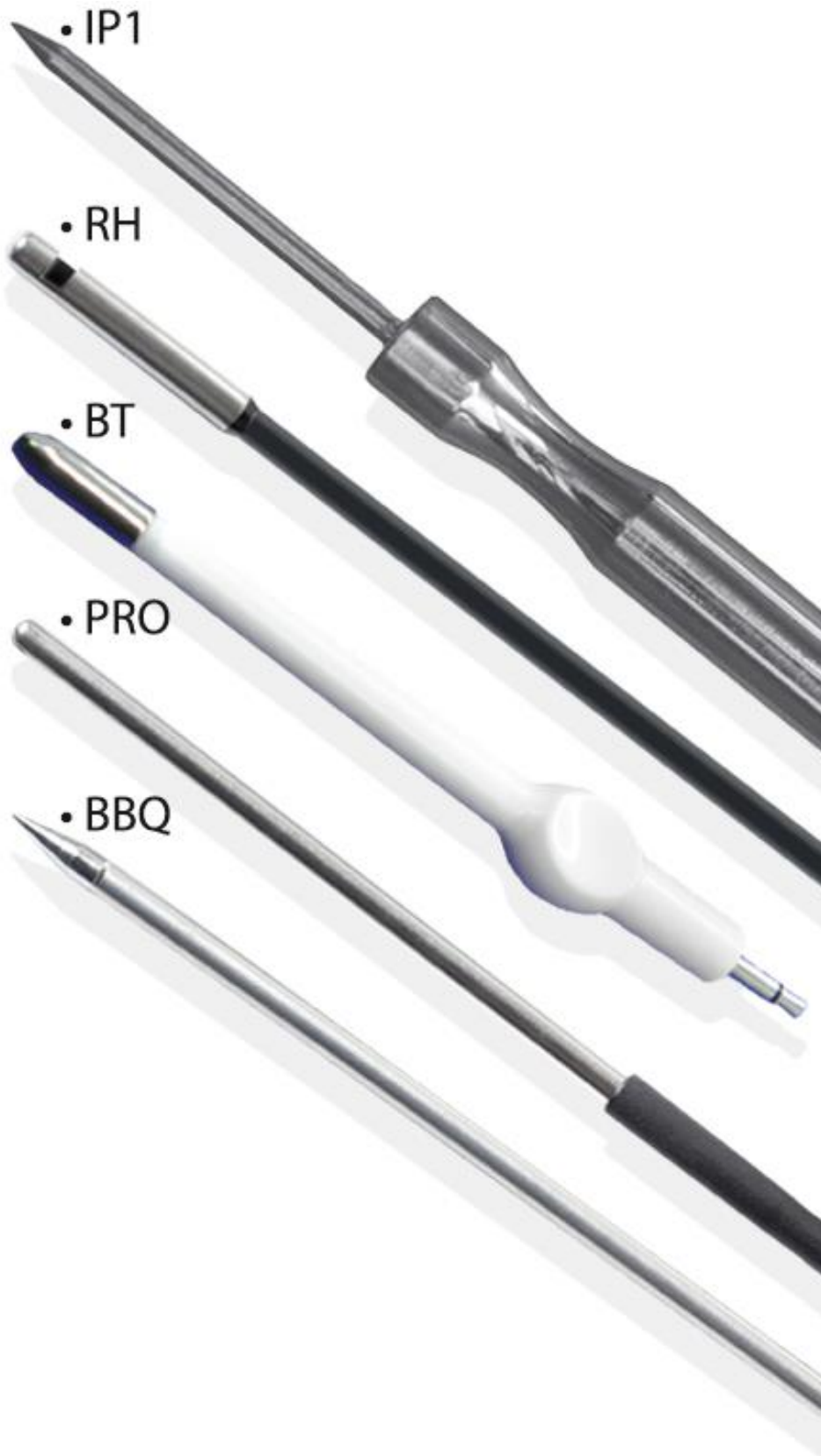
iCelsius Wireless Unit

Dimensions (HxWxD):	89mm x 60mm x 14mm (3.50" x 2.36" x 0.55")
Weight:	102g (3.60oz)
Connectors:	10-pin Sensor Connector microUSB for Charging
Battery:	Integrated 1000mAh Li-Ion Battery
Wi-Fi Protocols:	IEEE 802.11b/g/n
Wi-Fi Modes Supported:	Wi-Fi Direct, Infrastructure, Remote
Wi-Fi Encryption:	WEP, WPA/WPA2 Personal
On Board Data Storage	1 Week with a Once/Minute Sampling Rate
Operating temperature:	0°C to 40°C
Non-operating temperature:	-30°C to 70°C
Relative humidity:	10% to 90%
Certifications:	FCC, CE

iOS/Android App

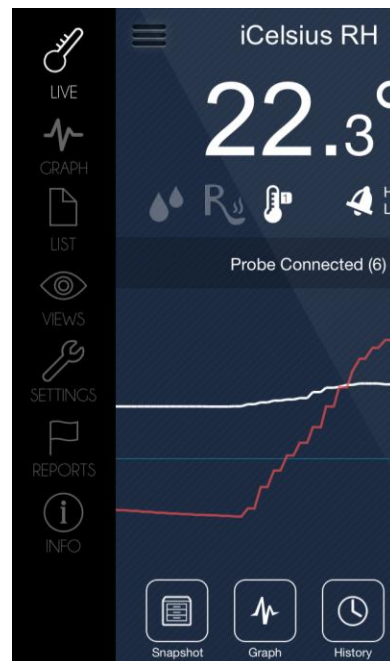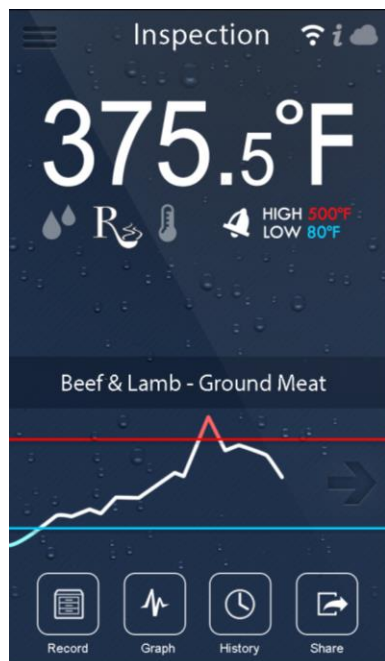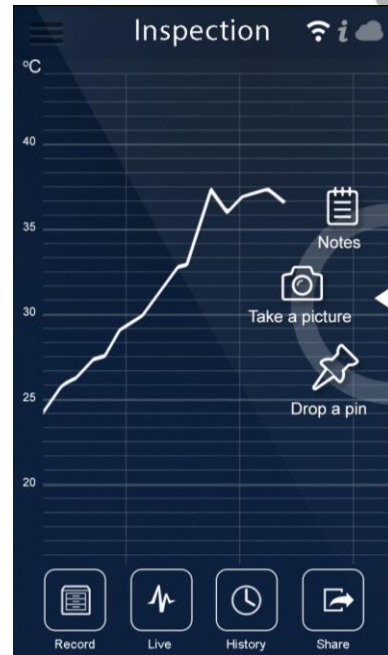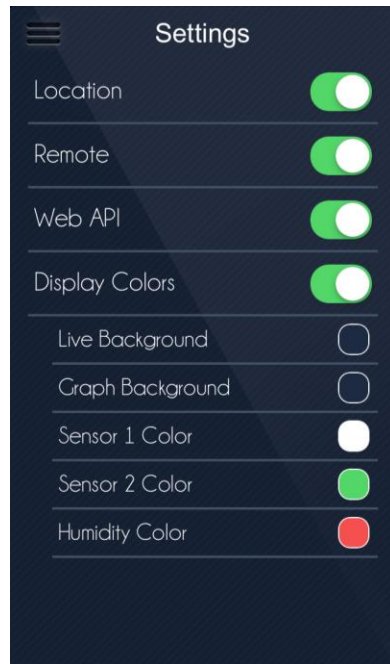|	
Features:	**Live Display** – shows useful temperature data in one shot
	Graphs – with pan and zoom touch support
	Alarms – Generate alarms when temperature goes outside a configurable (lower and/or upper) limit. On iPhone, call other phones when that happens.
	Snapshot Record – Ability to record a single reading, along with title, picture and note.
	Continuous Record – Ability to continuously record readings as well as to add notes, take a picture and drop a pin on the graph.
	History – Access all your previous records.
	Recipes – For cooking and barbecue, choose preset recipe or create your own.
Display resolution:	0.1°C/0.1°F (0.01°C/0.01°F for iCelsius Wireless BT)
iCelsius app supported on:	iOS device with iOS 4.3 or higher. Android device with Android 2.3.3 or higher.
Data storage:	The iCelsius Wireless Unit can store up to 1 week of data. Once connected to smartphone/tablet, data is transferred to the device and managed by a smart internal database. Remote monitoring is also supported.
Data Export:	Export by email (CSV) or as an image.
Units:	Ability to select [°C] or [°F].
API:	We provide an API to selected developers willing to integrate our technology into their apps.

Sensor Probes

• IP1

• RH

• BT

• PRO

• BBQ

	Pro	BBQ	Dual BBQ	IP	BT	RH
Application	General Purpose	Cooking & Grilling	Cooking & Grilling	Inspection	Body Temperature	Temperature & Humidity
Probe Length & Diameter	100mm ø 4mm (4", ø 0.16")	Straight Part: 120mm ø 4mm (4.7", ø 0.16")	Straight Part: 120mm ø 4mm (4.7", ø 0.16")	Handle: 99mm ø 16mm (3.9", ø 0.63") Tip: 135mm ø 3.2mm (5.3", ø 0.125")	Tip & Handle: 80mm (3.15") Tip: 12mm ø 4mm (0.47", ø 0.16")	25mm ø 5mm (1", ø 0.20")
Cable Length	100cm (3.3 ft)	150cm (4.9 ft)	150cm (4.9 ft)	Spline Warp	100cm (3.3 ft)	100cm (3.3 ft)
Measurement Range	-30°C to +150°C (-22°F to +302°F)	-30°C to +250°C (-22°F to +480°F)	-30°C to +250°C (-22°F to +480°F)	-30°C to +120°C (-22°F to +248°F)	34°C to 43°C (93.2°F to 109.4°F)	Temperature: -40°C to +125°C (-40°F to +257°F) Humidity: 0-100% RH
Accuracy*	±0.2°C (±0.4°F) at 25°C (77°F)	±1.5°C (±2.7°F) from -30°C (-22°F) to +110°C (+230°F)	±1.5°C (±2.7°F) from -30°C (-22°F) to +110°C (+230°F)	±0.3°C (±0.54°F) from 0°C to 70°C (32°F to 158°F)	±0.1°C (±0.18°F)	Temperature: typ. ±0.3°C (0.54° F) Humidity: typ. ±3% RH
Response Time (to reach 90% of value)	In water, with stirring: <10sec In moving air: <90sec In still air: <400sec	In water, with stirring: 13sec	In water, with stirring: 13sec	In water, with stirring: <5sec In moving air: <80sec In still air: <300sec	20sec in mouth	(to reach 63.2% of value): Temperature: 5 to 30sec Humidity: 8sec typical, air (1m/s)
Display Resolution	0.1°C (0.1°F)	0.1°C (0.1°F)	0.1°C (0.1°F)	0.1°C (0.1°F)	0.01°C (0.01°F)	0.1°C (0.1°F) 0.1% RH
Water Proof?	Probe & Tip	Tip Only	Tip Only	Tip Only	Probe & Tip	No

*Accuracy charts can be found on the iCelsius website.

iCelsius 2.0 App Screenshots

More information

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