



# SMART Pro/R TOOLS

Wireless Temperature and Pressure Sensors

## Specifications



### SPECIFICATIONS

GENERAL	
Connectivity	Bluetooth v4.0 (Bluetooth Low Energy / Bluetooth Smart)
Compatibility / Hardware	iPhone 4S and newer / iPod Touch Gen 5 and newer / iPad 3 and newer (Air and Mini) / iPad Pro / Android mobile devices
Compatibility / Software	iOS 9 or newer required / Android 4.4 or newer required
Standards	FCC / IC / CE
TEMPERATURE	
Sensor Type	NTC Thermistor
Sensor Dimensions	5.65" x 2.55" x 1.62" (143mm x 65mm x 41mm)
Sensor Weight	0.15 lbs. (.068 kg)
Accuracy	± 2.4°F / ± 1.3°C
Resolution	0.1°F / 0.1°C
Temperature Range	
Ambient Operating	-40°F to 140°F (-40°C to 60°C)
Line/Surface	-40°F to 230°F (-40°C to 110°C)
Storage (w/o Battery)	-40°F to 160°F (-40°C to 71°C)
Ingress Protection Rating	IP 65 / Dust tight and tolerant to some water jetting
Material	
Body/Battery Cap	UV Resistant Polymer
Line Sizes	1/4" through 3-1/8" OD (6mm through 85mm), with included cable-tie. Larger sizes possible with user provided straps, clamps, etc. A minimum contact force of 10 lbs. (4.5 kg) is required for best accuracy
Power Supply	Single, CR123A - Replaceable Battery
Battery Life	2,000 hours with battery provided and nominal 75°F / 24°C environment (Results will vary with other battery manufacturers and environmental conditions)
LOW PRESSURE SENSOR	
Sensor Dimensions	5.95" x 1.87" x 1.62" (151mm x 48mm x 41mm)
Sensor Weight	0.38 lbs. (0.17 kg)
Connection Size	1/8" NPT - Male
Accuracy	± 0.75% full scale
Resolution	0.1 psig / 0.1 barg
Temperature Range	
Ambient Operating	-40°F to 140°F (-40°C to 60°C)
Storage (w/o Battery)	-40°F to 160°F (-40°C to 71°C)
Pressure Range	0 psig to 300 psig (0 barg to 20.7 barg)
Proof Pressure	500 psig (34.5 barg)
Ingress Protection Rating	IP65 / Dust tight and tolerant to some water jetting
Material	
Wetted Surface	Stainless Steel
Body/Battery Cap	UV Resistant Polymer

<b>LOW PRESSURE SENSOR</b>	
Power Supply	Single, CR123A - Replaceable Battery
Battery Life	2,000 hours with battery provided and nominal 75°F / 24°C environment (Results will vary with other battery manufacturers and environmental conditions)
<b>HIGH PRESSURE SENSOR</b>	
Sensor Dimensions	5.95" x 1.87" x 1.62" (151mm x 48mm x 41mm)
Sensor Weight	0.38 lbs. (0.17 kg)
Connection	1/8" NPT - Male
Accuracy	± 0.75% full scale
Resolution	0.1 psig / 0.1 barg
Temperature Range	
Operating	-40°F to 140°F (-40°C to 60°C)
Storage (w/o Battery)	-40°F to 160°F (-40°C to 71°C)
Pressure Range	0 psig to 700 psig (0 barg to 48.3 barg)
Proof Pressure	1,000 psig (69.0 barg)
Ingress Protection Rating	IP65 / Dust tight and tolerant to some water jetting
Material	
Wetted Surface	Stainless Steel
Body/Battery Cap	UV Resistant Polymer
Power Supply	Single, CR123A - Replaceable Battery
Battery Life	2,000 hours with battery provided and nominal 75°F / 24°C environment (Results will vary with other battery manufacturers and environmental conditions)
<b>APP</b>	
Overview	The SMART Pro/R Service Tool is a Native App; the App is installed and runs directly on the smart device. Internet access is not required to run the App.
Bluetooth Low Energy Connection	Connects to sensors automatically using Broadcast Mode. Turn on sensors and app will receive data. Multiple mobile devices may read data simultaneously.
Connected Sensor / Quantity	>10 on compatible devices
Units of Measure	Pressure: psig or barg / Temperature: °F or °C
General	Offsets available for calibrating the zero point of sensors Mock sensors available to test app features before purchasing sensors Customizable job report in .pdf format Calculates superheat, subcooling, delta P and others Ability to record data to .csv file Over 115 refrigerants

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