




Wireless Probes Technical Specifications

	 911-M Humidity & Temperature	 912-M Temperature	 913-M & 914-M Pressure (Low / High) & Temperature
Temperature	°F, °C	°F, °C	°F, °C, K
Humidity	%RH	–	–
Dry Bulb & Wet Bulb	°F, °C	–	–
Sensor Types	Capacitive relative humidity / band gap temperature Temperature: 2 x NTC thermistor (side ports)	Optional wired surface & air probes Temperature: 2 x NTC thermistor (side ports)	Temperature compensated ceramic pressure transducer Temperature: 2 x NTC thermistor (side ports)
Response Time			
– Relative Humidity	Max 8 Seconds with 63% of a step function valid at 77°F (25°C) & 197 FPM (1 m/s) airflow	–	–
– Temperature	Max 1 second	Max 1 second	Max 1 second (temperature & pressure)
Wireless Protocol & Interface	ZigBee	ZigBee	ZigBee
Probe Measurement Ranges			
– Relative Humidity	0 to 100%	–	–
– Pressure	–	–	Low/High -14.5 to 232 psig (-1 to 17 bar) -14.5 to 580 psig (-1 to 40 bar)
– Temperature (optional)	-40 to 248°F (-40 to 120°C)	-40 to 248°F (-40 to 120°C)	-40 to 248°F (-40 to 120°C)
– Air Temperature (optional)	-40 to 248°F (-40 to 120°C)	-40 to 248°F (-40 to 120°C)	-40 to 248°F (-40 to 120°C)
– Pipe Clamp / Strap Probe Temp. (optional)	-40° to 300°F (-40 to 149°C)	-40° to 300°F (-40 to 149°C)	-40° to 300°F (-40 to 149°C)
Overload Pressure	–	–	Low/High 580 psi /1450 psig (40 bar relative / 100 bar relative)
Burst Pressure	–	–	Low/High 725 psig /1740 psig (50 bar relative / 120 bar relative)
Resolution	0.1% RH, 0.1°F / °C	0.1°F / °C	0.1 psi (.007 bar), 0.1°F / °C / K
Accuracy (nominal pressure)	–	–	<.5% full scale accuracy at 77°F (25°C)
Accuracy (nominal humidity)	±1.8% RH	–	–
Accuracy (nominal temperature)	± 0.4°F (0.2°C) or ± 0.5% of reading	± 0.4°F (0.2°C) or ± 0.5% of reading	± 0.4°F (0.2°C) or ± 0.5% of reading
Measureable Medias	Air temperatures & humidity	–	All refrigerants listed with iManifold. Not for use with ammonia (R717) and / or other refrigerants that contain ammonia.
Measureable Medias w/optional probes	Surface & air temperatures	Surface & air temperatures	Surface & air temperatures
Ambient Conditions			
– Operating Temperature	-4 to 140°F (-20 to 60°C) limited by batteries	-4 to 140°F (-20 to 60°C) limited by batteries	-4 to 140°F (-20° to 60°C) limited by batteries
– Storage Temperature	-20 to 140°F (-29 to 60°C)	-20 to 140°F (-29 to 60°C)	-20 to 140°F (-29° to 60°C)
– Humidity in Area of Use	0 to 100%RH (non-condensing)	0 to 100%RH (non-condensing)	0 to 100%RH (non-condensing)
IP Class	IP 50	IP 50	IP 50
Power Supply	2 x 1.5V AAA batteries Rechargeable / non-rechargeable	2 x 1.5V AAA batteries Rechargeable / non-rechargeable	2 x 1.5V AAA batteries rechargeable / non-rechargeable
	Micro-USB	Micro-USB	Micro-USB
Standards	FCC / CE / C-Tick	FCC / CE / C-Tick	FCC / CE / C-Tick
Warranty	1 year	1 year	1 year