DIGITAL COMPONENT SENSOR DEVELOPMENT TOOLS

WIRELESS DEMO AND DEVELOPMENT KITS

	Environmental Sensor Tag	**M5600**	**U5600**
Type	Humidity, Temperature, Pressure	Pressure	Pressure
Specifications	• 0 - 100% RH • 300 to 1,200 mbar	• 50 - 15K psi • Type G/S/C	• 2 - 10K psi • Type G/S/C/A
Communication Interface	Standard 2.4 GHz wireless communication	Standard 2.4 GHz wireless communication	Standard 2.4 GHz wireless communication
Application	iOS 7.0+ Android™ 4.3+	iOS 7.0+ Android™ 4.3+	iOS 7.0+ Android™ 4.3+
Operating Temp.	20°C to 85°C	-20°C to 85°C	-20°C to 85°C

SHIELDS AND HATS

	Arduino Weather Shield	**Raspberry Pi™ Sensors Weather Hat**	**PicTail Plus**
Type	Humidity, Temperature, Pressure	Humidity, Temperature, Pressure	Humidity, Temperature, Pressure
Sensors	HTU21D, MS5637, MS8607, TSYS01*, TSD305	HTU21D, MS5637, TSYS01*, TSD305	HTU21DF, MS5637, TSYS01*, MS8607
Specifications	• 0 - 100% RH • 20°C to 85°C • 300 to 1,200 mbar	• 0 - 100% RH • 20°C to 85°C • 300 to 1,200 mbar	• 0 - 100% RH • -20°C to 85°C • 300 to 1,200 mbar
Communication Interface	I²C	I²C	I²C
Partner Board	Arduino / Genuino	Raspberry Pi™	Microchip Explorer 16

WING BOARDS

	HTU21D	**MS5637**	**MS8607**	**TSYS01***	**TSYS02D***	**KMA36(A)**
Type	Humidity	Pressure	Pressure, Temperature, Humidity	Temperature	Temperature	Angular Position
Specifications	• 0 to 100% RH • -40°C to 125°C • 3.3 to 5.5 V	• 10 to 2,000 mbar • -40°C to 85°C • 1.5 to 3.6 V	• 10 to 2,000 mbar • -40°C to 85°C • 0 to 100% RH • 1.5 to 3.6 V	• -40°C to 125°C • 2.2 to 3.6 V	• -40°C to 125°C • 1.5 to 3.6 V	• 0 to 360° • -25°C to 85°C • 2.9 to 6.0 V
Accuracy	±3% RH	±2 mbar	±3% RH, ±2 mbar, ±1.0°C	±0.1°C	±0.2°C	±0.1°
Communication Interface	I²C	I²C	I²C	I²C	I²C	I²C
Compatibility	Configured to operate with the Xplained Pro development platform	Configured to operate with the Xplained Pro development platform	Configured to operate with the Xplained Pro development platform	Configured to operate with the Xplained Pro development platform	Configured to operate with the Xplained Pro development platform	Configured to operate with the Xplained Pro development platform

*Temperature System Sensor (TSYS)

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06/2019

Specifications subject to change.
Dimensions for reference purpose only.

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PAGE 5
DIGITAL COMPONENT SENSOR
DEVELOPMENT TOOLS

PERIPHERAL MODULES
Digilent Pmod™

	HTU21D	MS5637	MS8607	TSYS01*	TSYS02D*	KMA36(A)
Type	Humidity	Pressure	Pressure, Temperature, Humidity	Temperature	Temperature	Angular Position
Specifications	• 0 to 100% RH • -40°C to 125°C • 3.3 to 5.5 V	• 10 to 2,000 mbar • -40°C to 85°C • 1.5 to 3.6 V	• 10 to 2,000 mbar • -40°C to 85°C • 0 to 100% RH • 1.5 to 3.6 V	• -40°C to 125°C • 2.2 to 3.6 V	• -40°C to 125°C • 1.5 to 3.6 V	• 0° to 360° • -25°C to 85°C • 2.9 to 6.0 V
Accuracy	±3% RH	±2 mbar	±3% RH, ±2 mbar, ±1.0°C	±0.1°C	±0.2°C	±0.1°
Communication Interface	I²C	I²C	I²C	I²C	I²C	I²C
Compatibility	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections

	MS5611	MS5837	MS5805	TSD305
Type	Pressure	Pressure	Pressure	Temperature
Specifications	• 10 to 1,200 mbar • -40°C to 85°C • 1.5 to 3.6 V	• 10 to 2,000 mbar • -40°C to 85°C • 1.5 to 3.6 V	• 10 to 2,000 mbar • -40°C to 85°C • 1.8 to 3.6 V	• -10°C to +85°C • 1.68 to 3.6 V
Accuracy	±2 mbar	±2 mbar	±2 mbar	±1°C
Communication Interface	I²C	I²C	I²C	I²C
Compatibility	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections	Development systems compatible with Digilent Pmod™ connections

PAGE 6
DIGITAL COMPONENT SENSOR DEVELOPMENT TOOLS

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SS-TS-TE101
06/2019

GROVE SYSTEM

	KMA36	TSYS01*	TSYS02*	MS5637	MS8607
Type	Angular Position	Temperature	Temperature	Pressure	Pressure, Temperature, Humidity
Specifications	• 0 to 360° • -25°C to 85°C • 5.0 V	• -40°C to 125°C • 5.0 V	• -40°C to 125°C • 5.0 V	• 10 to 2,000 mbar • -40°C to 85°C • 5.0 V	• 10 to 2,000 mbar • -40°C to 85°C • 0 to 100% RH • 5.0 V
Accuracy	±0.1°	±0.1°C	±0.2°C	±2 mbar	±3% RH, ±2 mbar, ±1.0°C
Comm. Interface	I²C	I²C	I²C	I²C	I²C
Compatibility	Development platform compatible with grove systems	Development platform compatible with grove systems	Development platform compatible with grove systems	Development platform compatible with grove systems	Development platform compatible with grove systems

	HTU21D	MS5611	MS5837	MS5805	TSD305
Type	Humidity	Pressure	Pressure	Pressure	Temperature
Specifications	• 0 to 100% RH • -40°C to 125°C • 5.0 V	• 10 to 1,200 mbar • -40°C to 85°C • 5.0 V	• 10 to 2,000 mbar • -40°C to 85°C • 5.0 V	• 10 to 2,000 mbar • -40°C to 85°C • 5.0 V	• -10°C to +85°C • 5.0 V
Accuracy	±3% RH	±2 mbar	±2 mbar	±2 mbar	±1°C
Communication Interface	I²C	I²C	I²C	I²C	I²C
Compatibility	Development platform compatible with grove systems	Development platform compatible with grove systems	Development platform compatible with grove systems	Development platform compatible with grove systems	Development platform compatible with grove systems

SS-TS-TE101
06/2019

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PAGE 7
DIGITAL COMPONENT SENSOR
DEVELOPMENT TOOLS