DIGITAL COMPONENT SENSOR DEVELOPMENT TOOLS

Many of our digital sensor products are available in low power and small form factors. They are suited for wearable and miniature devices that are used to collect and share critical data for health monitoring, fitness, air quality, aerospace, battery powered, and related applications. To increase knowledge sharing and reduce time to market, we have teamed with semiconductor manufacturers to design and provide plug and play tools for Xplained Pro Sensor Hub, MicroChip PicTail, and Digilent Pmod™ based development platforms. In addition, we offer several wireless demo/development tools to help engineers quickly achieve their design objectives with wireless applications. These tools are supported with software/firmware drivers, documentation, and graphic user interfaces to make the development process easy.

WIRELESS DEMO AND DEVELOPMENT KITS

	MEAS Environmental Sensor Tag	MEAS Wireless M5600 Series	MEAS Wireless U5600 Series	MEAS Wireless FX1951
Type	Humidity, Temperature, Pressure	Pressure	Pressure	Force
Specifications	• 0 - 100% RH • 20°C to 85°C • 300 to 1,200 mbar	• 50 - 15K psi • Type G/S/C	• 2 - 10K psi • Type G/S/C/A	• 0 - 50 lbf
Communication	Standard 2.4 GHz wireless communication	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+	iOS 7.0+ Android™ 4.3+

PICTAIL PLUS

	MEAS HTU21D(F), MS5637, MS8607, TSYS01*
Type	Humidity, Temperature, Pressure
Specifications	• 0 - 100% RH • -20°C to 85°C • 300 to 1,200 mbar
TE Demo	PicTail Plus
Partner Board	Microchip Explorer 16

*Temperature System Sensor (TSYS) Series

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DIGITAL COMPONENT SENSOR DEVELOPMENT TOOLS

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Specifications subject to change.
Dimensions for reference purpose only.

Catalog SS-TS-TE100
01/2016

TE connectivity

SENSOR SOLUTIONS

PERIPHERAL MODULES
Digilent Pmod™

	MEAS HTU21D(F)	MEAS MS5637	MEAS MS8607	MEAS TSYS01*	MEAS TSYS02D*	MEAS KMA36(A)
Type	Humidity	Pressure	Pressure, Temperature, Humidity	Temperature	Temperature	Angular Position
Specifications	• 0 to 100% RH • -40 to 125°C • 3.3 to 5.5 V	• 10 to 2,000 mbar • -40 to 85°C • 1.5 to 3.6 V	• 10 to 2,000 mmar • -40 to 85°C • 0 to 100% RH • 1.5 to 3.6 V	• -40 to 125°C • 2.2 to 3.6 V	• -40 to 125°C • 1.5 to 3.6 V	• 0 to 360° • -25 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°
Comm. Interface	I²C	I²C	I²C	I²C	I²C	I²C
Board Connections	6 x 2 x 0.1" header input & output	6 x 2 x 0.1" header input & output	6 x 2 x 0.1" header input & output	6 x 2 x 0.1" header input & output	6 x 2 x 0.1" header input & output	6 x 2 x 0.1" header input & output
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

WING BOARDS

	MEAS HTU21D(F)	MEAS MS5637	MEAS MS8607	MEAS TSYS01*	MEAS TSYS02D*	MEAS 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 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°
Comm. Interface	I²C	I²C	I²C	I²C	I²C	I²C
Board Connections	10 x 2 x 0.1" header input & output	10 x 2 x 0.1" header input & output	10 x 2 x 0.1" header input & output	10 x 2 x 0.1" header input & output	10 x 2 x 0.1" header input & output	10 x 2 x 0.1" header input & output
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

DRIVERS

	MEAS HTU21D(F)	MEAS MS5637	MEAS MS8607	MEAS TSYS01*	MEAS TSYS02D*	MEAS KMA36(A)
Type	SAMD2x Microchip PIC24x Family FPGA Bare Metal - Linux® / Android™	SAMD2x Microchip PIC24x Family FPGA Bare Metal - Linux® / Android™	SAMD2x Microchip PIC24x Family FPGA Bare Metal - Linux® / Android™	SAMD2x Microchip PIC24x Family FPGA Bare Metal - Linux® / Android™	SAMD2x Microchip PIC24x Family FPGA Bare Metal - Linux / Android™	SAMD2x Microchip PIC24x Family FPGA Bare Metal - Linux® / Android™
Language	ANSI C Coding	ANSI C Coding	ANSI C Coding	ANSI C Coding	ANSI C Coding	ANSI C Coding

*Temperature System Sensor (TSYS) Series

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Catalog   SS-TS-TE100
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DEVELOPMENT TOOLS

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