

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

PICTAIL PLUS



MEAS Environmental Sensor Tag

Type	Humidity, Temperature, Pressure
Specifications	<ul style="list-style-type: none"> • 0 - 100% RH • 20°C to 85°C • 300 to 1,200 mbar
Communication	Standard 2.4 GHz wireless communication
Application	iOS 7.0+ Android™ 4.3+



MEAS Wireless M5600 Series

Type	Pressure
Specifications	<ul style="list-style-type: none"> • 50 - 15K psi • Type G/S/C
Communication	Standard 2.4 GHz wireless communication
Application	iOS 7.0+ Android™ 4.3+



MEAS Wireless U5600 Series

Type	Pressure
Specifications	<ul style="list-style-type: none"> • 2 - 10K psi • Type G/S/C/A
Communication	Standard 2.4 GHz wireless communication
Application	iOS 7.0+ Android™ 4.3+



MEAS Wireless FX1951

Type	Force
Specifications	<ul style="list-style-type: none"> • 0 - 50 lbf
Communication	Standard 2.4 GHz wireless communication
Application	iOS 7.0+ Android™ 4.3+



MEAS HTU21D(F), MS5637, MS8607, TSYS01

Type	Humidity, Temperature, Pressure
Specifications	<ul style="list-style-type: none"> • 0 - 100% RH • -20°C to 85°C • 300 to 1,200 mbar
TE Demo	PicTail Plus
Partner Board	Microchip Explorer 16

PERIPHERAL MODULES

Diligent 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	<ul style="list-style-type: none"> • 0 to 100% RH • -40 to 125°C • 3.3 to 5.5 V 	<ul style="list-style-type: none"> • 10 to 2,000 mbar • -40 to 85°C • 1.5 to 3.6 V 	<ul style="list-style-type: none"> • 10 to 2,000 mbar • -40 to 85°C • 0 to 100% RH • 1.5 to 3.6 V 	<ul style="list-style-type: none"> • -40 to 125°C • 2.2 to 3.6 V 	<ul style="list-style-type: none"> • -40 to 125°C • 1.5 to 3.6 V 	<ul style="list-style-type: none"> • 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	I ² C	I ² C	I ² C	I ² C	I ² C	I ² C
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 Diligent Pmod™ connections	Development systems compatible with Diligent Pmod™ connections	Development systems compatible with Diligent Pmod™ connections	Development systems compatible with Diligent Pmod™ connections	Development systems compatible with Diligent Pmod™ connections	Development systems compatible with Diligent 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	<ul style="list-style-type: none"> • 0 to 100% RH • -40°C to 125°C • 3.3 to 5.5 V 	<ul style="list-style-type: none"> • 10 to 2,000 mbar • -40 to 85°C • 1.5 to 3.6 V 	<ul style="list-style-type: none"> • 10 to 2,000 mbar • -40°C to 85°C • 0 to 100% RH • 1.5 to 3.6 V 	<ul style="list-style-type: none"> • -40°C to 125°C • 2.2 to 3.6 V 	<ul style="list-style-type: none"> • -40°C to 125°C • 1.5 to 3.6 V 	<ul style="list-style-type: none"> • 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	I ² C	I ² C	I ² C	I ² C	I ² C	I ² C
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