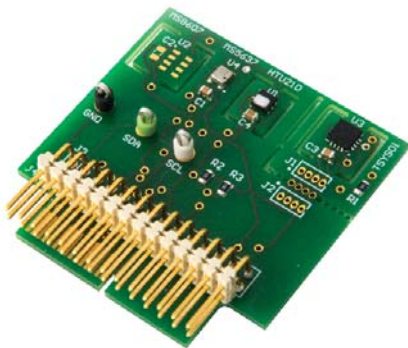


# DIGITAL COMPONENT SENSOR DEVELOPMENT TOOLS

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

					
<b>Type</b>	<b>MEAS Environmental Sensor Tag</b> Humidity, Temperature, Pressure	<b>MEAS Wireless M5600 Series</b> Pressure	<b>MEAS Wireless U5600 Series</b> Pressure	<b>MEAS Wireless FX1951</b> Force	<b>MEAS HTU21D(F), MS5637, MS8607, TSYS01*</b> Humidity, Temperature, Pressure
<b>Specifications</b>	<ul style="list-style-type: none"> <li>• 0 - 100% RH</li> <li>• 20°C to 85°C</li> <li>• 300 to 1,200 mbar</li> </ul>	<ul style="list-style-type: none"> <li>• 50 - 15K psi</li> <li>• Type G/S/C</li> </ul>	<ul style="list-style-type: none"> <li>• 2 - 10K psi</li> <li>• Type G/S/C/A</li> </ul>	<ul style="list-style-type: none"> <li>• 0 - 50 lbf</li> </ul>	<ul style="list-style-type: none"> <li>• 0 - 100% RH</li> <li>• -20°C to 85°C</li> <li>• 300 to 1,200 mbar</li> </ul>
<b>Communication</b>	Standard 2.4 GHz wireless communication	Standard 2.4 GHz wireless communication	Standard 2.4 GHz wireless communication	Standard 2.4 GHz wireless communication	PicTail Plus
<b>Application</b>	iOS 7.0+ Android™ 4.3+	iOS 7.0+ Android™ 4.3+	iOS 7.0+ Android™ 4.3+	iOS 7.0+ Android™ 4.3+	<b>Partner Board</b> Microchip Explorer 16

\*Temperature System Sensor (TSYS) Series

## PERIPHERAL MODULES

Digilent Pmod™



	<b>MEAS HTU21D(F)</b>	<b>MEAS MS5637</b>	<b>MEAS MS8607</b>	<b>MEAS TSYS01*</b>	<b>MEAS TSYS02D*</b>	<b>MEAS KMA36(A)</b>
<b>Type</b>	Humidity	Pressure	Pressure, Temperature, Humidity	Temperature	Temperature	Angular Position
<b>Specifications</b>	<ul style="list-style-type: none"> <li>• 0 to 100% RH</li> <li>• -40 to 125°C</li> <li>• 3.3 to 5.5 V</li> </ul>	<ul style="list-style-type: none"> <li>• 10 to 2,000 mbar</li> <li>• -40 to 85°C</li> <li>• 1.5 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• 10 to 2,000 mbar</li> <li>• -40 to 85°C</li> <li>• 0 to 100% RH</li> <li>• 1.5 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• -40 to 125°C</li> <li>• 2.2 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• -40 to 125°C</li> <li>• 1.5 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 360°</li> <li>• -25 to 85°C</li> <li>• 2.9 to 6.0 V</li> </ul>
<b>Accuracy</b>	±3% RH	±2 mbar	±3% RH, ±2 mbar, ±1.0°C	±0.1°C	±0.2°C	±0.1°
<b>Comm. Interface</b>	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C
<b>Board Connections</b>	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
<b>Compatibility</b>	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



	<b>MEAS HTU21D(F)</b>	<b>MEAS MS5637</b>	<b>MEAS MS8607</b>	<b>MEAS TSYS01*</b>	<b>MEAS TSYS02D*</b>	<b>MEAS KMA36(A)</b>
<b>Type</b>	Humidity	Pressure	Pressure, Temperature, Humidity	Temperature	Temperature	Angular Position
<b>Specifications</b>	<ul style="list-style-type: none"> <li>• 0 to 100% RH</li> <li>• -40°C to 125°C</li> <li>• 3.3 to 5.5 V</li> </ul>	<ul style="list-style-type: none"> <li>• 10 to 2,000 mbar</li> <li>• -40 to 85°C</li> <li>• 1.5 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• 10 to 2,000 mbar</li> <li>• -40°C to 85°C</li> <li>• 0 to 100% RH</li> <li>• 1.5 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• -40°C to 125°C</li> <li>• 2.2 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• -40°C to 125°C</li> <li>• 1.5 to 3.6 V</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 360°</li> <li>• -25°C to 85°C</li> <li>• 2.9 to 6.0 V</li> </ul>
<b>Accuracy</b>	±3% RH	±2 mBar	±3% RH, ±2 mBar, ±1.0°C	±0.1°C	±0.2°C	±0.1°
<b>Comm. Interface</b>	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C	I <sup>2</sup> C
<b>Board Connections</b>	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
<b>Compatibility</b>	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



	<b>MEAS HTU21D(F)</b>	<b>MEAS MS5637</b>	<b>MEAS MS8607</b>	<b>MEAS TSYS01*</b>	<b>MEAS TSYS02D*</b>	<b>MEAS KMA36(A)</b>
<b>Type</b>	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™
<b>Language</b>	ANSI C Coding	ANSI C Coding	ANSI C Coding	ANSI C Coding	ANSI C Coding	ANSI C Coding

\*Temperature System Sensor (TSYS) Series