

## Humidity Sensor PICtail Demo Board

Part Number: PIC16F690DM-PCTLHS

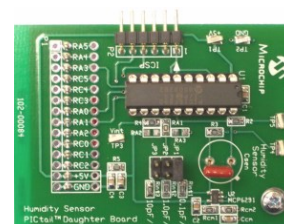
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This board supports the capacitive humidity sensor application note AN1016. It measures the capacitance of a relative humidity sensor plugged into the board. The on-board microcontroller sends the measured and calculated relative humidity (RH) to a PC for display.

The board can also measure small capacitors in different ranges of values using a dual slope integration method. The board can be modified, if desired, to achieve better measurement resolution.



### Features

### Package Contents

### Host System Requirements

### Companion Tool

- Simple interface to a PC using the PICKit™ 1 Flash Starter Kit
  - GUI program displays capacitance and Relative Humidity results
  - Can program the on-board PIC16F690
  - Sockets for inserting radial leaded capacitors
- User selected capacitance range
- Test points to monitor circuit's operation
- ICSP™ connection gives alternative for programming the on-board PIC16F690:
  - PICKit™ 2 Microcontroller Programmer
  - MPLAB® ICD 2

## Documentation & Software

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| AppNotes                                                                                            | Last Updated          | Size  |                                                                                       |
|-----------------------------------------------------------------------------------------------------|-----------------------|-------|---------------------------------------------------------------------------------------|
| <a href="#">AN1016 - Detecting Small Capacitive Sensors Using the MCP6291 and PIC16F690 Devices</a> | 4/13/2006 1:08:22 PM  | 630KB |  |
| Documents                                                                                           | Last Updated          | Size  |                                                                                       |
| <a href="#">Humidity Sensor PICtail Demo Board PC GUI Software and Source Code</a>                  | 2/10/2006 11:47:28 AM | 2MB   |  |
| <a href="#">Humidity Sensor PICtail Demo Board Gerbers</a>                                          | 2/10/2006 11:45:06 AM | 210KB |  |
| <a href="#">Humidity Sensor PICtail Demo Board Firmware</a>                                         | 2/10/2006 11:43:35 AM | 22KB  |  |
| <a href="#">Humidity Sensor PICtail(TM) Demo Board User's Guide</a>                                 | 12/21/2005 3:04:32 PM | 748KB |  |



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