

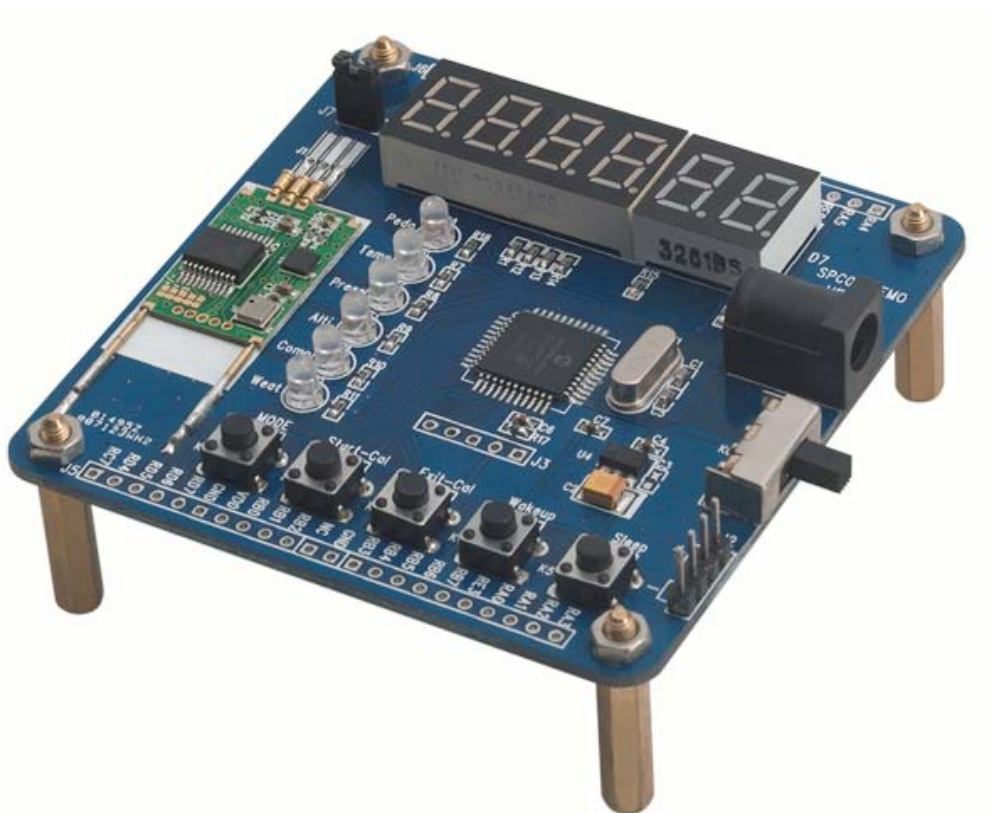
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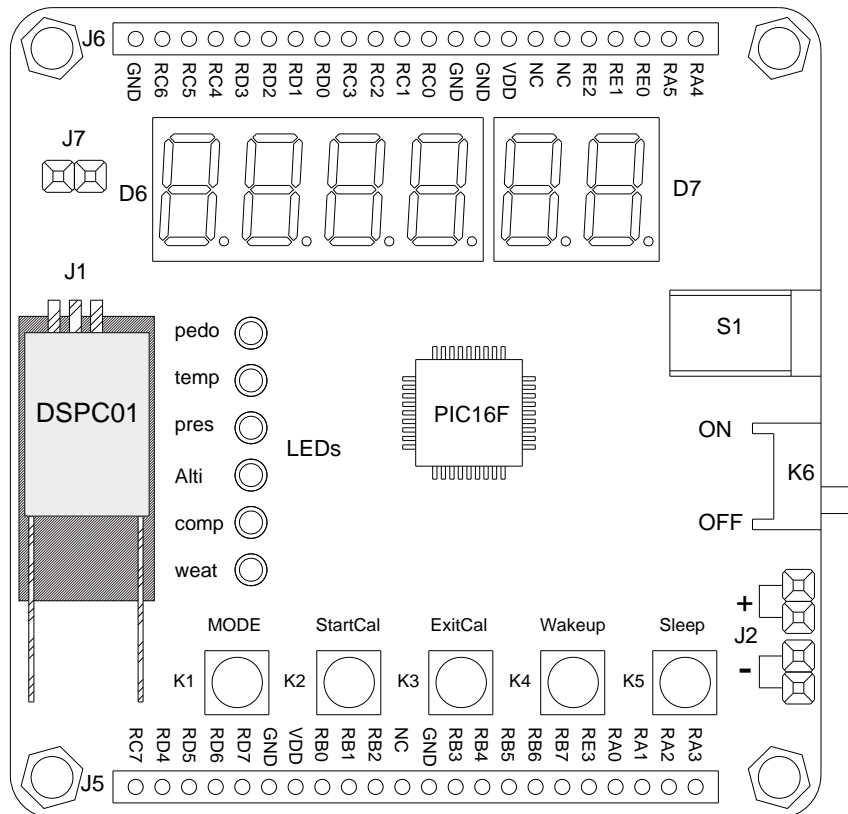
**Operation Manual for Demo Kit DAD02**

**V1.01**

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The demo kit DAD02 is designed for measuring pressure, temperature, altitude and direction parameters of sensor module DSPC01. The kit mainly includes: fig area, LED array, button array and display area.





## 1. LEDs

Part Name	Part Type	Function
Pedo	Led	Reserved; no function
Temp	Led	Temperature indication
Pres	Led	Pressure indication
Alti	Led	Altitude indication
Comp	Led	Direction indication
Weat	Led	Weather trend indication

## 2. BUTTONS

- 1) **MODE:** This button is used to switch measured parameters in different mode.
- 2) **Startcal:** At each powering-on, the compass sensor needs to be recalculated. After pressing it, the DISPLAY area will show “---“, which means calibration is going on. Users need to rotate the demo kit horizontally at least two times and each circle should last at least 3 seconds.
- 3) **Exitcal:** Reserved; without function.
- 4) **Wakeup:** It is used to wake up the module from sleep mode.
- 5) **Sleep:** When it is pushed, the module will enter sleep mode.

### 3. SWITCH & SOCKET

Part Name	Part Type	Function
J1	Fig	To fix sensor module on board
J2	Header	Pin header for battery supply
K6	Switch	Power switch
S1	Socket	Power socket for DC input
D6,D7	Display	Display measured parameters
J5,J6	Pin holes	For monitoring command and time sequence
J7	Jumper	Current measurement; Shorted in normal use

### 4. POWPER SUPPLY

The kit works at 2.7~3.6V. There are two groups of power inputs: J2 (battery) and S1 (DC socket). Users only can choose one of them in use.

### 5. FUNCTION DISCRIPTION

When powering-on, the DISPLAY will show pressure value and the Pres LED is lighted. Users can push the Mode button to check different parameters. At each power-on, the compass sensor needs to be recalculated or else the measured value is inaccurate. After pressing Startcal button, the DISPLAY will show '---' and the compass sensor will start self-calculation and last about 10 seconds. In this period users need to rotate the demo kit horizontally at least two times and each circle should last at least 3 seconds. After self-calibration the DISPLAY will show the accurate compass value.

### 6. APPLIATION NOTES

- 1) DSPC01 module should be kept away from the outlet of wind in measuring pressure value. Dust or other foreign substance should not block or cover the measuring hole of pressure sensor or else the pressure value will be inaccurate or be postponed in reading.
- 2) In measuring direction the module should be kept in horizontal level in order to get the correct value and should avoid to be used in strong magnetic environment such as large electromechanical equipment, iron mine, magnet, etc. If the product is equipped with speaker, the speaker should be turned off in case the magnetic field will interfere the compass.
- 3) If the sensor module is put or pass in strong magnetic environment, the compass should be calibrated after leaving such environment. The users also need to calibrate the compass for the first use when the finished products are sold on market

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