

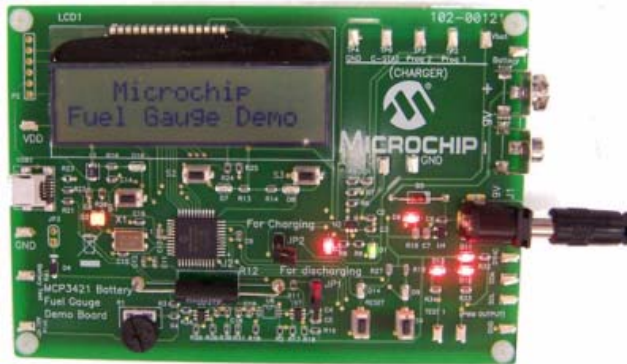


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Part Number: MCP3421DM-BFG

MCP3421 Battery Fuel Gauge Demo Board

Devices Supported: MCP3421, MCP73831, MCP1702, PIC18F4550



Summary Description:

The MCP3421 Battery Fuel Gauge Demo Board demonstrates how to measure the battery voltage and discharging current using the MCP3421.

The MCU algorithm calculates the battery fuel being used. This demo board is shipped with 1.5V AAA non-rechargeable battery. The demo board displays the following parameters:

- (a) Measured battery voltage.
- (b) Measured battery discharging current.
- (c) Battery Fuel Used (calculated).

The MCP3421 Battery Fuel Gauge Demo Board also can charge a single-cell 4.2V Li-Ion battery. This feature, however, is disabled by firmware since the demo kit is shipped to customer with non-rechargeable 1.5V AAA battery.

Please contact Microchip Technology Inc if you want to use the battery rechargeable feature.

Features:

When used with non-rechargeable battery:

Measure the battery voltage

Measure the battery discharging current

Calculate the total used battery fuels

Display the battery voltage, discharging current, and fuel used

When used with rechargeable battery:

• Measure the battery voltage

• Measure the battery discharging current

• Recharge single cell Li-Ion Battery

• Measure the battery charging current

• Calculate the total battery fuels used

• Calculate the battery fuel remains

• Display the battery voltage, discharging current, fuel used, and fuel remains