

MCP3905A Energy Meter Reference Design [Buy Now](#)

Part Number: MCP3905RD-PM1

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The MCP3905A Energy Meter Reference Design (using the new MCP3905A/06A device) is a stand-alone low cost energy meter. It can act as either a stand alone energy meter, or as the analog front end design for LCD microcontroller based meters. The MCP3905 design is specified with an energy measurement error of 0.1% typical across 1:500 dynamic range for high accurate energy meter designs. This reference design is compliant with EMC requirements per energy metering standards IEC62053 and legacy IEC61036, IEC1046 and IEC687.



Features

Package Contents

- Uses the new MCP3905A/06A devices
- Demonstration board is a ready to use single-chip low cost energy meter
- Direct connection to line for energy meter, no transformers required
- On-board power supply circuitry
- Resistive network and Output LED for meter calibration,
- Resistor shorts for gain and frequency selection

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AppNotes	Last Updated	Size	
AN994 - IEC Compliant Active-Energy Meter Design Using the MCP3905/6	7/1/2009 8:55:07 AM	554KB	
Documents	Last Updated	Size	
Intelligent Metering & Power Monitoring Solutions	1/28/2015 2:00:03 PM	280KB	
MCP3905A/6A Energy Meter Reference Design User's Guide	4/25/2014 4:19:01 PM	322KB	
MCP3905A/05L/06A Data Sheet	7/21/2011 2:46:05 PM	535KB	
MCP3905A Power Meter Reference Design Gerbers	1/11/2006 2:43:04 PM	156KB	