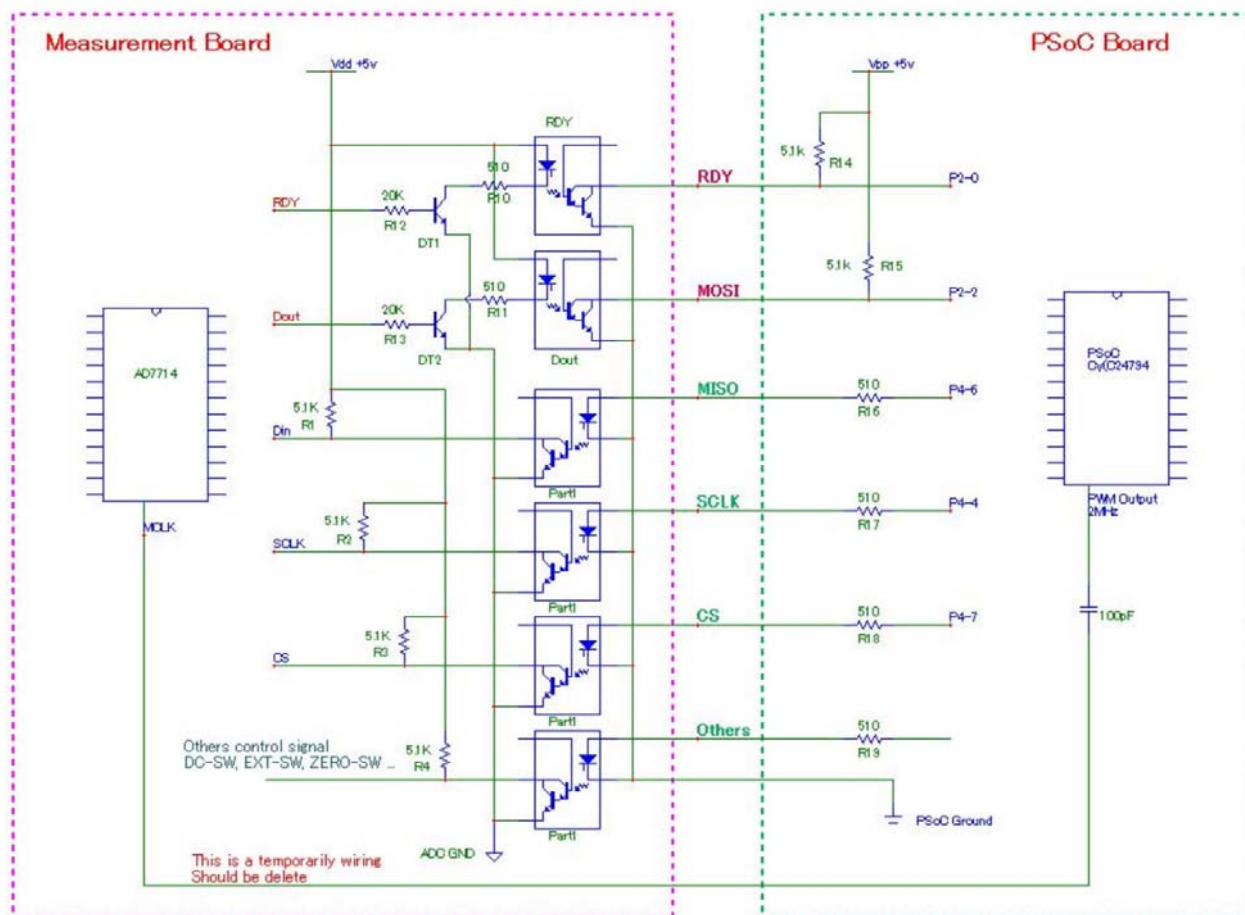This is a Universal Measurement Board,
It's measure Voltage, Current and Resistance.
The board is isolated from chassis ground by photocouplers.
PSoC is connected to chassis ground.

Main device is AD7714 ADC chip.
PSoC will do measure controls, display on LCD
and communicate with PC by USB.

This design is in a progress, Some code is not complete.
Treat it "as is" condition.

Interface Diagram

Port Pins And Usage

PORT No.	Usage	I/O	Remarks
P2-0	RDY	i	ADC Ready (fast change)
P2-2	MISO	i	ADC Data Out to MCU (fast change)
P3-0	INS-A0	O	Slow Switch
P3-2	INS-A1	O	Slow Switch
P3-4	ZERO SW	O	Slow Switch
P3-6	EXT SW	O	Slow Switch
P4-0	DC SW	O	Slow Switch
P4-2	Ex CS	O	ADC Chip Select (broken)
P4-4	SCLK	O	SPI SCLK 2KHz bit clock (broken)
P4-6	MOSI	O	ADC Data In from MCU
P4-5	MCLK	O	ADC Clock (2MHz)
P4-7	New CS	O	ADC Chip Select (replaced to here)