














plant watering system

PIN occupancy for Raspberry Pi 1 - Model B (Rev. 2)

		PIN		PIN	
	3V3	1		2	5V
LED (signal out) →	GPIO2 SDA1 I2C	3		4	5V ← LED VCC (+ / 5,0 V)
sensor VCC (+ / 3,3 V / out) →	GPIO3 SCL1 I2C	5		6	Ground ← LED GND (-)
	GPIO4 GCLK0	7		8	GPIO14 UART0_TXD ✗ don't use this PIN (sends signal when booting)
sensor GND (-) →	Ground	9		10	GPIO15 UART0_RXD
relay1 "Int1" (signal out) →	GPIO17	11		12	GPIO18 PCM_CLK
relay2 "Int2" (signal out) →	GPIO27	13		14	Ground
relay3 "Int3" (signal out) →	GPIO22	15		16	GPIO23 ← relay4 "Int4" (signal out)
MCP3008 - "V _{DD} /V _{REF} " (Pin 15 & 16) →	3V3	17		18	GPIO24
MCP3008 - "D _{IN} " (Pin 11) →	GPIO10 SPI0_MOSI	19		20	Ground
MCP3008 - "D _{OUT} " (Pin 12) →	GPIO9 SPI0_MISO	21		22	GPIO25
MCP3008 - "CLK" (Pin 13) →	GPIO11 SPI0_SCLK	23		24	GPIO8 SPI0_CE0_N ← MCP3008 - "CS/SHDN" (Pin 10)
MCP3008 - "A/D-GND" (Pin 9 & 14) →	Ground	25		26	GPIO7 SPI0_CE1_N