

THIS IS WHAT SHOULD BE HAPPENING:

INCOMING VOLTAGE	2051 PIN		
	7	8	18
0-2.5	0	0	QUARTERS
2.5-5.5	1	0	DUPLET
5.5 and above	0	1	TUPLET
ILLEGAL INSTRUCTION (won't happen*)	1	1	XX
	1	1	XX

* the decoded logic I give you at pins 7 and 8 will not allow for these state combinations.

THIS IS WHAT IS ACTUALLY HAPPENING:

INCOMING VOLTAGE	2051 PIN		
	7	8	18
0-2.5	0	0	DUPLET
2.5-5.5	1	0	TUPLET
5.5 and above	0	1	QUARTER
ILLEGAL INSTRUCTION (won't happen*)	1	1	XX
	1	1	XX

* the decoded logic I give you at pins 7 and 8 will not allow for these state combinations.