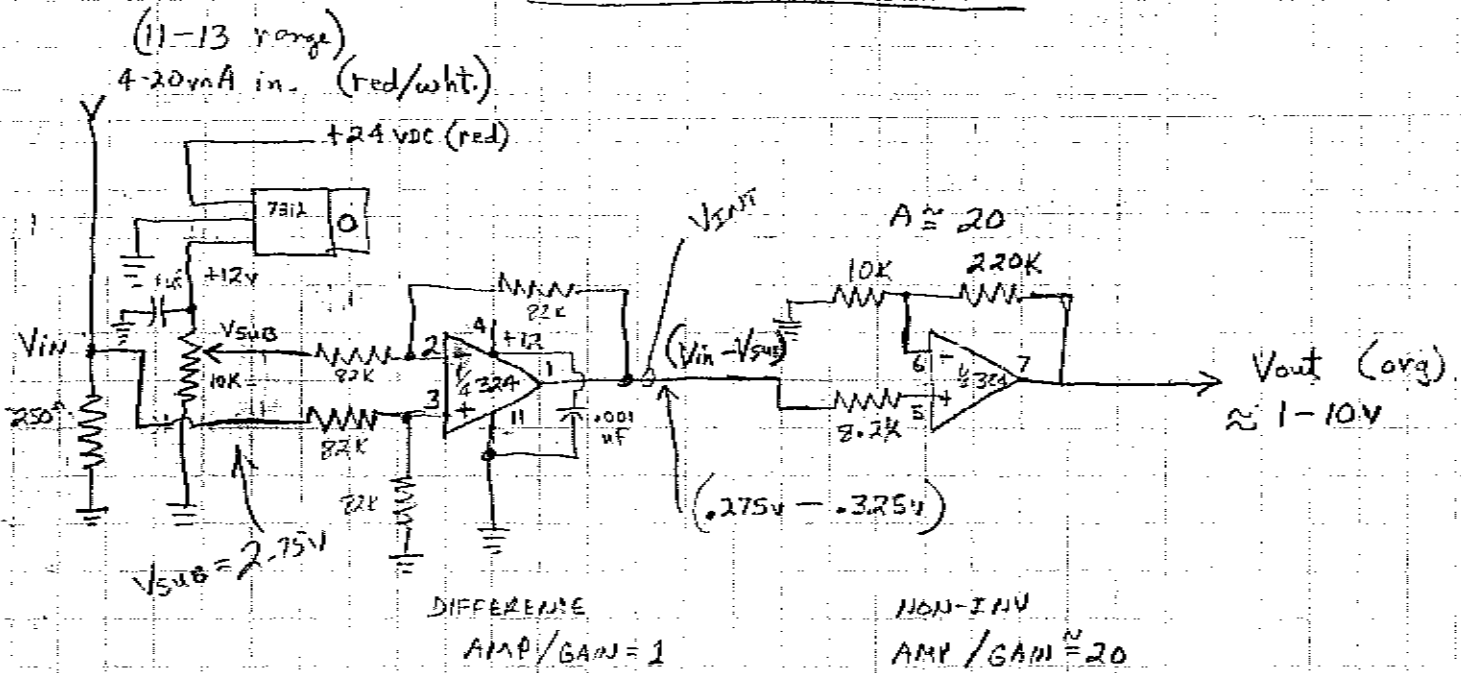


SIGNAL SHIFTER + AMP.



SAMPLE ($V_{SUB} = 2.38V$)

V_{IN}	V_{OUT}	
2.75	1.0V	250^{Ω}
2.79	2.0V	$.013A$
2.84	3.0V	750
2.89	4.0V	250
2.92	5.0V	$3250V$
2.97	6.0V	
3.01	7.0V	
3.06	8.0V	
3.11	9.0V	
3.15	10.0V	

Designed for a transducer which is operating in its midrange but has less than the normal 4-20mA excursion, 11-13mA in this case.

The input current is passed thru a 250^{Ω} resistor to change it to voltage of 2.75v to 3.25v. An offset voltage is adjusted with 10K trim pot. In operation, the intermediate output voltage V_{INT} is $V_{IN} - V_{SUB}$.

The V_{INT} is fed to NON-INV AMP with gain of about 20. This gives 10V output when input is 3.15v.