

Note: Uxmax value depends on MOSFET characteristic and if additional Resistor Rm has to be used. So gain value of op amp may have to be adjusted.

$$R_x = \frac{U_x}{I}$$

$$U_{x\max} = U_{ri} - U_{rm} - U_{dsmin}$$

Uref = 1,5V; URM = 0; ADC with 10bit
RDSon = 2,10hm (ADG1411)

Ri	I	Uxmax	Rxmax@ 5V Uref	Resolution	Rxmax@ 2,5V Uref	Resolution
160k	9,38uA	98,5V	10M5	10k3	5M31	5k18
1M6	0,938uA	98,5V	105M	103k	53M1	51k8
16M	93,8 nA	98,5V	1G05	1M03	531M	518k

