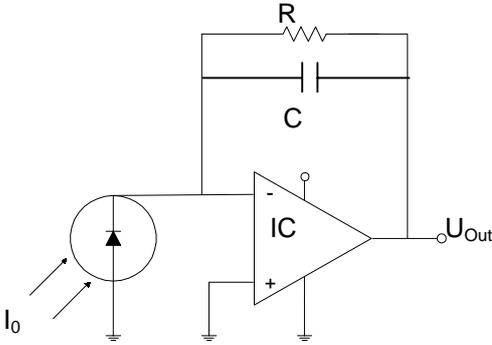


Application Notes for UV Sensors

Applications for UV 10S L and UV10S F

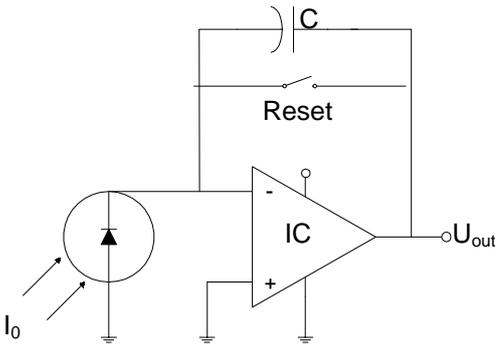
Standard detection unit



- IC: low noise, low input bias current OP
TLC 271; OPA 336 etc.
R: 10 MOhm to 100 GOHM
C: Optional 0,5-10pF to prevent oscillating

Delivers output voltage corresponding to UV intensity I_0
 $I_{Diode} = f(WI, I_0)$
 $U_{out} = R * I_{Diode}$

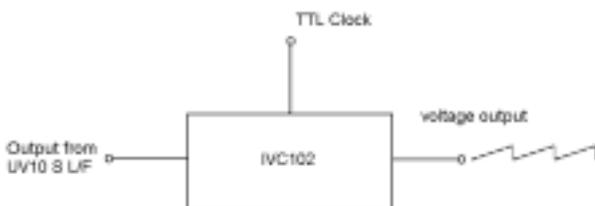
Integrating unit / Dosimeter



- IC: low noise, low input bias current OP
TLC 271; OPA 336 etc.
C: 1pF to 100pF (polycarbonat capacitor, low leakage current)

Delivers integrated output voltage corresponding to UV intensity I_0
 $I_{Diode} = f(WI, I_0)$
 $U_{out} = k \int I_{diode} dt$

Switched Integrator



- IC: IVC 102 Burr Brown (Texas Instruments)

For detailed information see IVC102.pdf
Or at <http://www.ti.com>