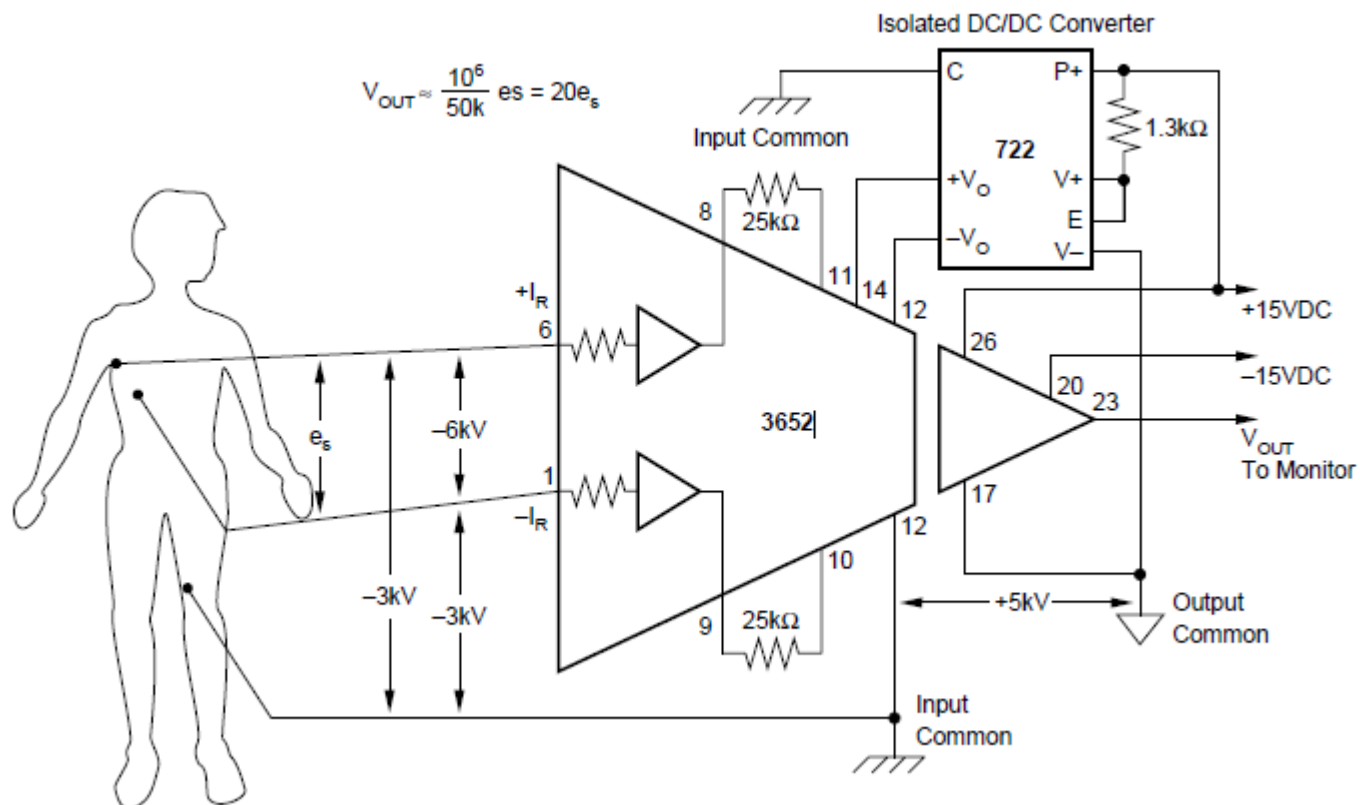


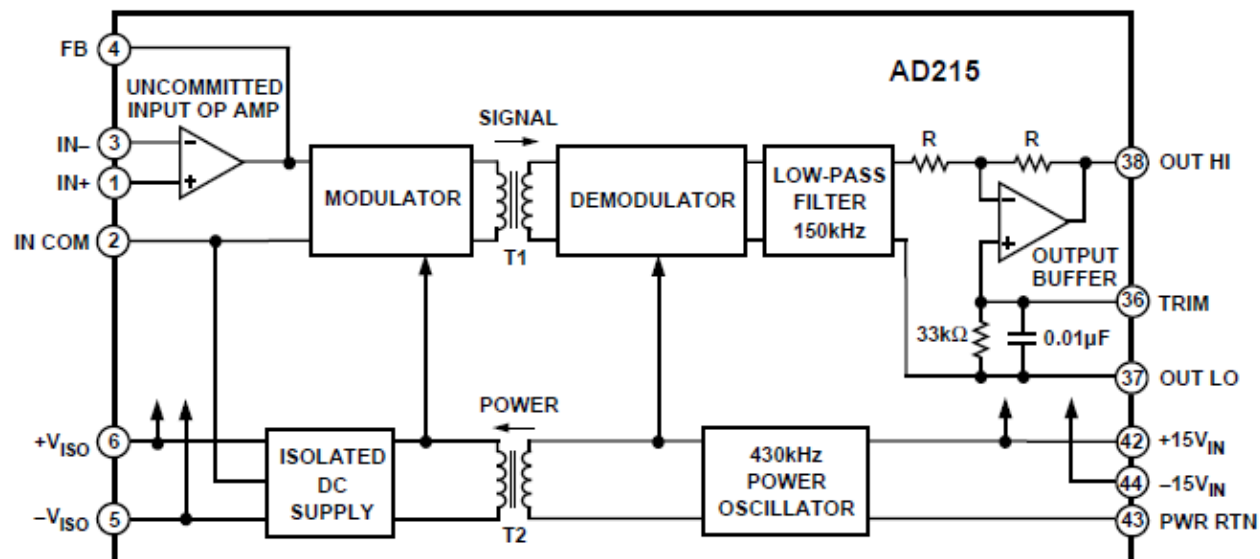
Bioelectronics, Isolation Amplifiers



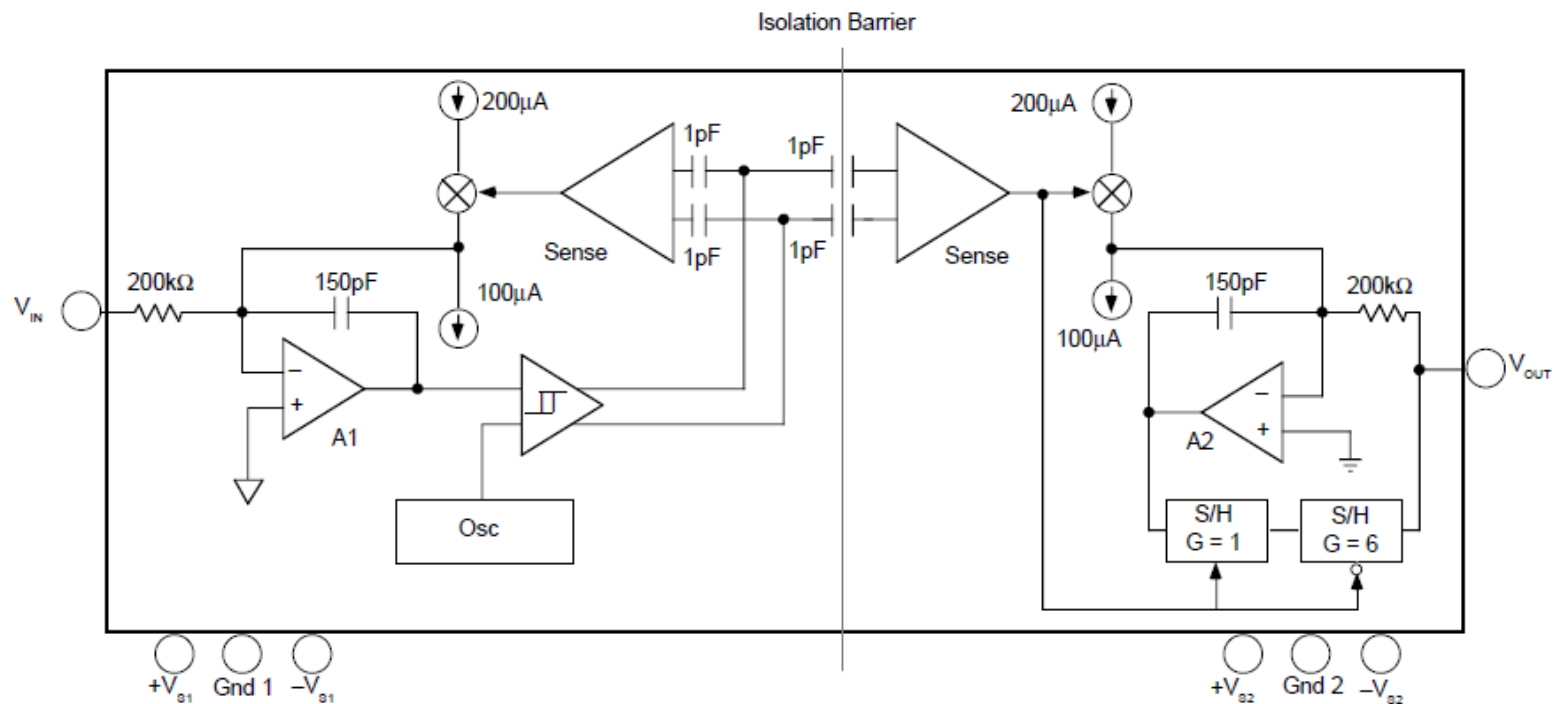
Isolation Principles

- Inductive isolation
- Capacitive isolation
- Optical isolation

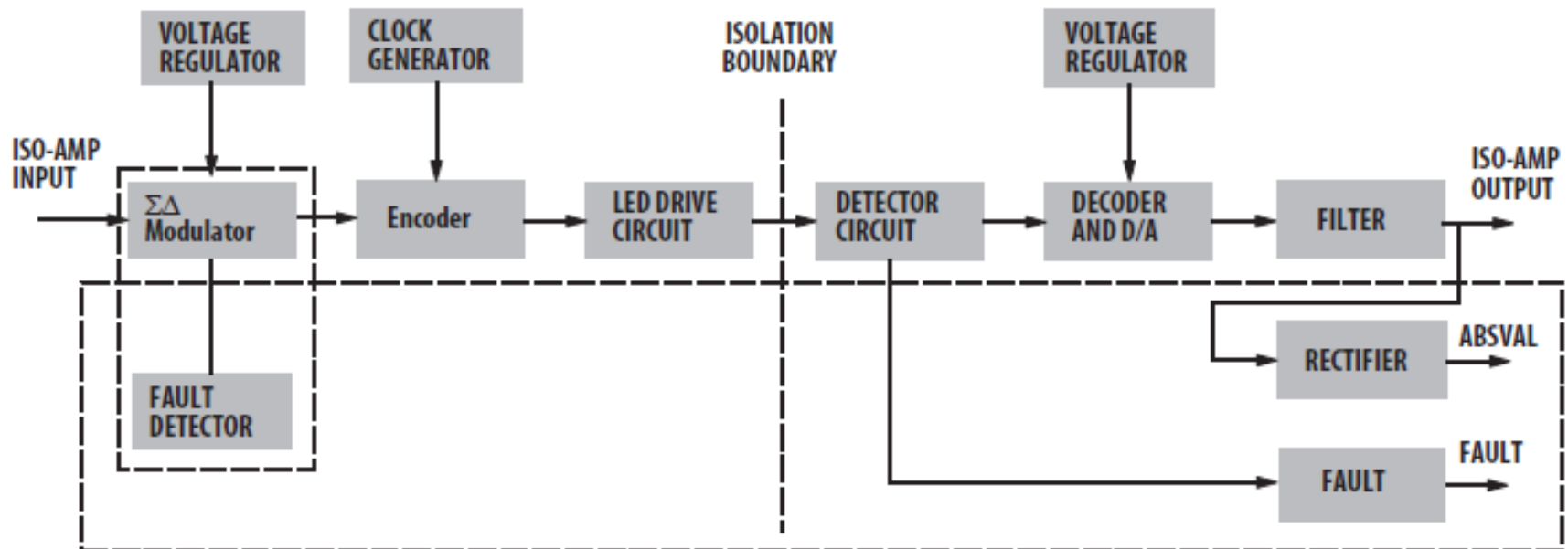
Inductive Isolation



Capacitive Isolation (ISO124)



Optical Isolation (HCPL-7800)



Isolation Amplifier Comparision

	AD215	289	ISO124	ACPL-7900
Manufacturer	Analog Devices	Intronics	Texas Instruments	Avago Technologies
Price	53,07€	292,34€	0,31€	0,02€
Bandwidth	120kHz	1kHz	50kHz	200kHz
CMRR	120dB	114dB	140dB	76dB
Gain	1-10	1-100	1	8,2
Isolation	1500V	2500V	1500V	5000V
Supply	$\pm 15V$	$\pm 15V$	$\pm 18V$	-0,5...+6V
Input voltage	$\pm 10V$	240V _{RMS}	$\pm 100V$	$\pm 2V$
Output voltage	$\pm 10V$	väh. $\pm 10V$	$\pm 12,5V$	-0,5...+6,5V
Temp. Range	-40...85°C	-25...85°C	-55...125°C	-40...105°C
Slew rate	6 V/ μs	25mV/ μs	2V/ μs	