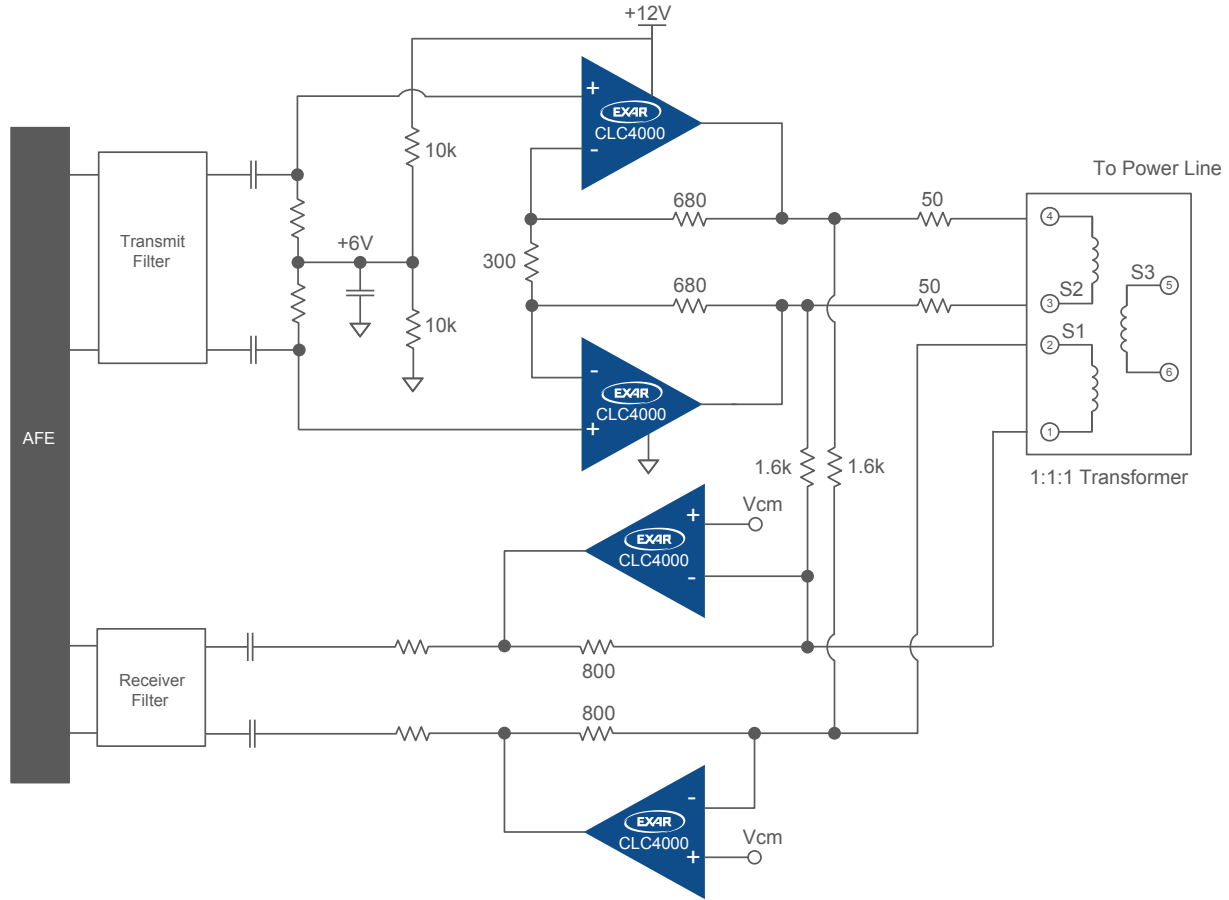


HPA PRODUCTS FOR GENERAL PURPOSE INDUSTRIAL APPLICATIONS

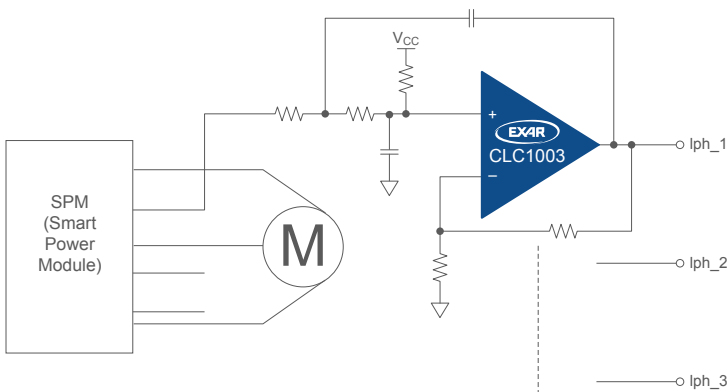
Example Applications

- Pressure sensor
- Weigh scale sensor
- Flow meter
- Power line communications
- Current shunt
- E-Whiteboard
- Collision avoidance systems
- Laser range finder

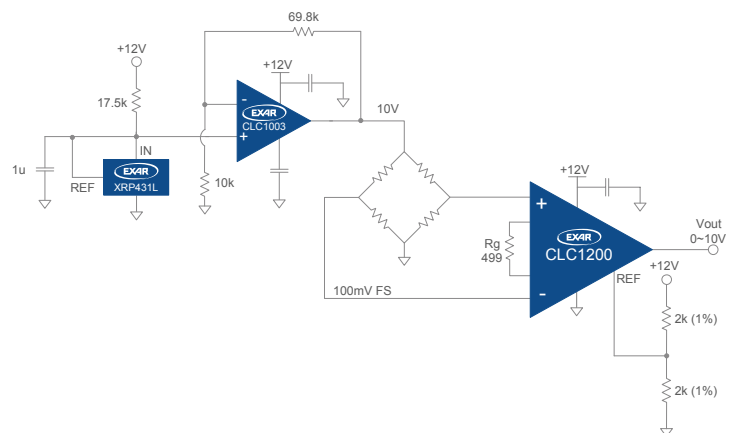
Typical Power Line Communications Application Circuit



Current Sensing in 3-Phase Motor Applications



Single Supply Sensor Interface Circuit



High Performance Amplifiers

Name	# of Ch	Rail-to-Rail	GBW (MHz)	SR (V/ μ s)	Is per Ch (mA)	Iout (mA)	en (nV/ \sqrt Hz)	Vio Max (\pm) (mV)	PSRR (dB)	CMRR (dB)	Min Vs (V)	Max Vs (V)
CLC1001	1	Yes	Out	No	12.5	130	0.6	1	83	90	4	12
CLC1002	1	Out	965	170	13	130	0.6	1	83	90	4	12
CLC1003	1	In / Out	35	12	2.2	80	3.5	1	100	95	2.5	12
CLC1004	1	No	NS	1400	12	100	4	10	56	60	4.5	12
CLC1005	1	Out	90	145	4.2	55	16	8	57	87	2.5	5.5
CLC1007	1	Out	95	220	2.6	100	16	7	102	100	2.7	12.6
CLC1008	1	Out	33	50	0.505	15	12	5	66	74	2.5	5.5
CLC1009	1	Out	20	27	0.208	8.5	21	5	60	95	2.5	5.5
CLC1010	1	Out	4	9	0.07	4	29	5	63	95	2.5	5.5
CLC1014	1	No	NS	1400	12	100	4	10	56	60	4.5	12
CLC1020	1	Out	1	>1	0.13	60	39	7	60	65	2.7	5.5
CLC1050	1	No	0.84	0.285	0.65	40	40	5	100	70	3	36
XR8051	1	Out	65	190	2.6	100	16	7	102	100	2.7	12.6
CLC2000	2	No	220	210	7	200	4.5	6	81	79	5	13
CLC2005	2	Out	90	145	4.2	55	16	8	57	87	2.5	5.5
CLC2007	2	Out	95	220	2.6	100	16	7	102	100	2.7	12.6
CLC2008	2	Out	33	50	0.505	15	12	5	66	74	2.5	5.5
CLC2009	2	Out	20	27	0.208	8.5	21	5	60	95	2.5	5.5
CLC2010	2	Out	4	9	0.07	4	29	5	63	95	2.5	5.5
CLC2011	2	In / Out	2.5	9	0.16	35	22	8	85	80	2.5	5.5
CLC2023	2	In / Out	35	12	2.2	60	3.5	6	100	85	2.5	12
CLC2050	2	No	0.84	0.285	0.65	40	40	5	100	70	3	36
CLC2058	2	No	5.5	2.8	2.5	35	10	5	95	100	4	36
CLC2059	2	No	15	7	1.5	45	4	3	110	110	4	36
XR8052	2	Out	65	190	2.6	100	16	7	102	100	2.7	12.6
CLC4000	4	No	220	210	7	200	4.5	6	81	79	5	13
CLC4007	4	Out	95	220	2.6	100	16	7	102	100	2.7	12.6
CLC4011	4	In / Out	2.5	9	0.16	35	22	8	85	80	2.5	5.5
CLC4050	4	No	0.84	0.285	0.65	40	40	5	100	70	3	36
XR8054	4	Out	65	190	2.6	100	16	7	102	100	2.7	12.6

Instrumentation Amplifiers

Name	# of Ch	Gain Range	Gmin (V/V)	BW @ Gmin (MHz)	Is per Ch (mA)	Max Vio (\pm) (μ V)	CMRR (dB)	en (nV/ \sqrt Hz)	Min Vs (V)	Max Vs (V)
CLC1200	1	1 to 10,000	1	0.7	1.3	125	130	6.6	4.6	36
CLC1206*	1	1 to 10,000	1	6	0.8	50	100	9	4.6	36

Note: *Available Q1 2014

Comparators

Name	# of Ch	Output Type	Response Time (μ s)	Vio (mV)	CMIR (V)	Is per Ch (mA)	Min Vs (V)	Max Vs (V)
CLC2550	2	Open Collector	1.3	2	-VS - 1.5	0.15	2	36
CLC4550	4	Open Collector	1.3	2	-VS - 1.5	0.225	2	36