This document lists all common Solartron Transducers and link settings for the OD4, OD5 range of electronics.

Every effort will be made to keep this list up to date. If the transducer being used cannot be found then please ask.

The settings given here are a starting point only.
Full instructions for setting up any output and offset are given in the user manual.

Setting a ±10 V Output

The Course Gain Range indicated in the tables will produce an output just below ±10V. For an accurate ±10 V output, the Fine Gain Control should be adjusted.

Setting a ±5 V Output

For a ±5 V fullscale output, select the Course Range one down from that shown in the tables.
Example: Range 4 will give ±10 V fullscale; Range 5 will give ±5 V fullscale (after Fine Gain adjust).

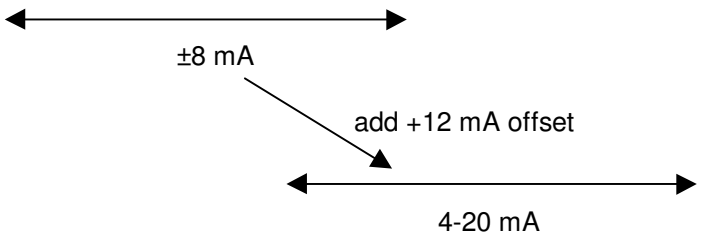
Setting a 4-20 mA Output

The current output and voltage output are related as shown below. Voltage and current are available concurrently.

4-20 mA is the same as a ±8 mA with a +12 mA offset.

When relating current and voltage, 4-20 mA is the same as a 2 to 10 V span (or ±4 V with a +6 V offset).

Voltage	-10	-8	-6	-4	-2	0	2	4	6	8	10	V
Current	-20	-16	-12	-8	-4	0	4	8	12	16	20	mA



To set 4-20 mA, perform the following steps.

1. Select the Course range setting for ±5 V (approximately ±10 mA)
2. Adjust the fine gain control to give ±8 mA.
3. Add a fixed offset of +10 mA (+VE and 5 V course link).
4. Adjust the fine offset control to give ±8 mA.

Solartron LVDT Transducers

	Sensitivity mV/V/mm	±Range mm	Full Range Output mV	Calibration Load Resistance kΩ	Calibration Frequency kHz	Links			
						Freq	Input Resistance	Input Gain	Course Gain Range
B-Series									
BS/1.5	158	1.5	711	100	5	parked	parked	parked	2
BS/2.5	154	2.5	1155	100	5	parked	parked	parked	3
BS/5	108	5	1620	100	5	parked	parked	parked	3
BS/7.5	48	7.5	1080	100	5	parked	parked	parked	3
BS/10	29	10	870	100	5	parked	parked	parked	2
BS/15	27	15	1215	100	5	parked	parked	parked	3
BS/25	16	25	1200	100	5	parked	parked	parked	3
BS/50	10.8	50	1620	100	5	parked	parked	parked	3
BS/75	9	75	2025	100	5	parked	parked	parked	4
BS/100	8.2	100	2460	100	5	parked	parked	parked	4
BS/125	5.9	125	2212.5	100	5	parked	parked	parked	4
Optimum Series									
OP/1.5	102	1.5	459	100	5	parked	parked	parked	1
OP/6	81	6	1458	100	5	parked	parked	parked	3
OP/12.5	72	12.5	2700	100	5	parked	parked	DIV2	4
OP/1.5+	110	2.5	825	100	5	parked	parked	parked	2
OP/6+	76	8	1824	100	5	parked	parked	parked	3
OP/12.5+	72	15	3240	100	5	parked	parked	DIV2	5
SM Series									
SM/1	147	1	441	100	5	parked	parked	parked	1
SM/3	130	3	1170	100	5	parked	parked	parked	3
SM/1+	147	2	882	100	5	parked	parked	parked	2
SM/3+	130	4	1560	100	5	parked	parked	parked	3

Solartron LVDT Transducers

	Sensitivity mV/V/mm	±Range mm	Full Range Output mV	Calibration Load Resistance kΩ	Calibration Frequency kHz	Links			
						Freq	Input Resistance	Input Gain	Course Gain Range
AC, ACR Range									
AC/15	35	15	1575	100	5	parked	parked	parked	3
AC/25	2	25	1500	100	5	parked	parked	parked	3
AC/50	9.3	50	1395	100	5	parked	parked	parked	3
AC/100	5	100	1500	100	5	parked	parked	parked	3
AC/150	3.2	150	1440	100	5	parked	parked	parked	3
AC/250	2.1	250	1575	100	5	parked	parked	parked	3
AC/300	1.7	300	1530	100	5	parked	parked	parked	3
Submersible Range									
SAF(CR)/15	34	15	1530	100	5	parked	parked	parked	3
SAF/25	20	25	1500	100	5	parked	parked	parked	3
SAF/50	9.3	50	1395	100	5	parked	parked	parked	3
AX, AXR, AT, ATR Range. Also BG(R) and MD where ±Range is the same									
AX/0.25	272	0.25	204	10	5	parked	10k*	X2	4
AX/0.5	272	0.5	408	10	5	parked	10k*	parked	1
AX/1	210	1	630	10	5	parked	10k*	parked	2
AX/1.5	150	1.5	675	10	5	parked	10k*	parked	2
AX/2	150	2	900	10	5	parked	10k*	parked	1
AX/2.5	150	2.5	1125	10	5	parked	10k*	parked	3
AX/5	105	5	1575	10	5	parked	10k*	parked	3
AX/10	33	10	990	10	5	parked	10k*	parked	4
A6G, M6D1 and AU/1									
A6G	269	1	807	10	5	parked	10k*	parked	2

* For some transducers, especially standardised types, better performance can sometimes be achieved with 100K load.
This is due to interaction between transducer, standardisation components and components needed to meet EMC requirements.

Solartron Half Bridge Transducers

	Sensitivity mV/V/mm	±Range mm	Full Range Output mV	Calibration Load Resistance kΩ	Calibration Frequency kHz	Links			
						Freq	Input Resistance	Input Gain	Course Gain Range
AX, AXR, AT, ATR Range. (U) means unstandardised (usually unplugged)									
AX/0.25	73.5	0.25	55	2*	10	on	2k*	X4	1
AX/0.25(U)	84	0.25	63	2*	10	on	2k*	X4	1
AX/0.5	73.5	0.5	110	2*	10	on	2k*	X4	2
AX/0.5(U)	84	0.5	126	2*	10	on	2k*	X4	2
AX/1	73.5	1	221	2*	10	on	2k*	X2	1
AX/1.5	49	1.5	221	2*	10	on	2k*	X2	1
A6G/1	73.5	1	221	2*	10	on	2k*	X2	1
AX/10	7.35	10	221	2*	10	on	2k*	X2	1
AX/2.5	29.4	2.5	221	2*	10	on	2k*	X2	1
AX/5	14.7	5	221	2*	10	on	2k*	X2	1
AX/1(U)	83	1	249	2*	10	on	2k*	X2	1
A6G/1(U)	88	1	264	2*	10	on	2k*	X2	1
AX/1.5(U)	82	1.5	369	2*	10	on	2k*	X1 (parked)	1
AX/2.5(U)	82	2.5	615	2*	10	on	2k*	X1 (parked)	2
AX/5(U)	51	5	765	2*	10	on	2k*	X1 (parked)	2
AX/10(U)	33	10	990	2*	10	on	2k*	X1 (parked)	2

* For some transducers, especially standardised types, better performance can sometimes be achieved with 100K load.
This is due to interaction between transducer, standardisation components and components needed to meet EMC requirements.