

# TSP Fluke 754 calibration 24.FEB.2024

channel A  
 cal type DCV,DCI,ACV,ACI,Resistance  
 auto zero, ACAL TRUE  
 source Fluke 5720A/H1  
 reference HP 3458A/3

## As received performance calibration results

# errors 0  
 number of tests 61  
 passed tests 61  
 passed all tests? TRUE

cal type	test #	range	targetValue	min spec, 1 year	MEASURED	max spec, 1 year	deviation	in spec?
DCV measure	1	0.1 V	0.000 V	-0.000005 V	0.000001 V	0.000005 V	0.000%	TRUE
DCV measure	2	0.1 V	0.100 V	0.099975 V	0.100000 V	0.100025 V	0.000%	TRUE
DCV measure	3	0.1 V	-0.100 V	-0.100025 V	-0.099993 V	-0.099975 V	0.007%	TRUE
DCV measure	4	3.0 V	0.000 V	-0.00005 V	0.00000 V	0.00005 V	0.000%	TRUE
DCV measure	5	3.0 V	1.00 V	0.99975 V	0.99995 V	1.00025 V	0.005%	TRUE
DCV measure	6	3.0 V	2.00 V	1.99955 V	1.99990 V	2.00045 V	0.005%	TRUE
DCV measure	7	3.0 V	3.00 V	2.99935 V	2.99986 V	3.00065 V	0.005%	TRUE
DCV measure	8	3.0 V	-3.00 V	-3.00065 V	-2.99985 V	-2.99935 V	0.005%	TRUE
DCV measure	9	30.0 V	0.00 V	-0.00050 V	0.00000 V	0.00050 V	0.000%	TRUE
DCV measure	10	30.0 V	30.00 V	29.99350 V	29.99870 V	29.98700 V	0.004%	TRUE
DCV measure	11	30.0 V	-30.00 V	-30.00650 V	-29.99870 V	-29.99350 V	0.004%	TRUE
DCV measure	12	300.0 V	0.00 V	-0.050 V	0.000 V	0.050 V	0.000%	TRUE
DCV measure	13	300.0 V	295.00 V	294.800 V	294.990 V	295.200 V	0.003%	TRUE
DCV measure	14	300.0 V	-295.00 V	-295.200 V	-294.990 V	-294.800 V	0.003%	TRUE
ACV measure	15	3.000 V @ 500 Hz	0.260 V	0.257 V	0.260 V	0.263 V	0.000%	TRUE
ACV measure	16	3.000 V @ 500 Hz	3.000 V	2.983 V	2.999 V	3.017 V	0.033%	TRUE
ACV measure	17	3.000 V @ 40 Hz	0.260 V	0.257 V	0.261 V	0.263 V	2.000%	TRUE
ACV measure	18	3.000 V @ 40 Hz	3.000 V	2.983 V	3.001 V	3.017 V	-0.033%	TRUE
ACV measure	19	30.00 V @ 500 Hz	2.600 V	2.567 V	2.600 V	2.633 V	0.000%	TRUE
ACV measure	20	30.00 V @ 500 Hz	30.000 V	29.830 V	30.020 V	30.170 V	-0.067%	TRUE
ACV measure	21	30.00 V @ 40 Hz	2.600 V	2.567 V	2.610 V	2.633 V	-0.383%	TRUE
ACV measure	22	30.00 V @ 40 Hz	30.000 V	29.830 V	30.030 V	30.170 V	-0.100%	TRUE
ACV measure	23	300.0 V @ 500 Hz	27.0 V	26.665 V	27.000 V	27.335 V	0.000%	TRUE
ACV measure	24	300.0 V @ 500 Hz	295.0 V	293.325 V	294.300 V	296.675 V	0.238%	TRUE
ACV measure	25	300.0 V @ 40 Hz	27.0 V	26.665 V	27.000 V	27.335 V	0.000%	TRUE
ACV measure	26	300.0 V @ 50 Hz	295.0 V	293.325 V	295.100 V	296.675 V	-0.034%	TRUE
DCI measure*	27	30 mA	0.004 A	0.003995 A	0.003998 A	0.004005 A	0.050%	TRUE
DCI measure*	28	30 mA	0.020 A	0.019993 A	0.019997 A	0.020007 A	0.015%	TRUE
DCI measure*	29	30 mA	0.030 A	0.029992 A	0.029997 A	0.030008 A	0.010%	TRUE
DCI measure*	30	30 mA	-0.030 A	-0.030008 A	-0.029998 A	-0.029992 A	0.007%	TRUE
DCI measure*	31	100 mA	0.000 A	-0.000020 A	-0.000010 A	0.000020 A	0.000%	TRUE
DCI measure*	32	100 mA	0.100 A	0.099970 A	0.099990 A	0.100030 A	0.010%	TRUE
DCI measure*	33	100 mA	-0.100 A	-0.100030 A	-0.099990 A	-0.099970 A	0.010%	TRUE
Resistance meas	34	10 Ω	0 Ω	-0.050 Ω	0.0020 Ω	0.050 Ω	0.000%	TRUE
Resistance meas	35	10 Ω	10 Ω	9.945 Ω	10.0040 Ω	10.055 Ω	-0.040%	TRUE
Resistance meas	36	100 Ω	0 Ω	-0.050 Ω	0.0020 Ω	0.050 Ω	0.000%	TRUE
Resistance meas	37	100 Ω	100 Ω	99.900 Ω	100.0000 Ω	100.100 Ω	0.000%	TRUE
Resistance meas	38	1000 Ω	0 Ω	-0.500 Ω	0.000 Ω	0.500 Ω	0.000%	TRUE
Resistance meas	39	1000 Ω	1000 Ω	999.000 Ω	1000.00 Ω	1001.000 Ω	0.000%	TRUE
Resistance meas	40	10000 Ω	0 Ω	-0.010 Ω	0.00 Ω	0.010 Ω	0.000%	TRUE
Resistance meas	41	10000 Ω	10000 Ω	9980.000 Ω	10000.00 Ω	10020.000 Ω	0.000%	TRUE
DCV source	42	0.1 V	0.010	0.009994 V	0.0099968 V	0.0100060 V	0.032%	TRUE
DCV source	43	0.1 V	0.100	0.099985 V	0.1000060 V	0.1000150 V	-0.006%	TRUE
DCV source	44	1.0 V	0.150	0.149940 V	0.1500020 V	0.1500700 V	-0.001%	TRUE
DCV source	45	1.0 V	1.000	0.999850 V	1.0000640 V	1.0001500 V	-0.006%	TRUE
DCV source	46	15.0 V	1.500	1.499350 V	1.5000080 V	1.5006500 V	-0.001%	TRUE
DCV source	47	15.0 V	10.000	9.998500 V	10.0007000 V	10.0015000 V	-0.007%	TRUE
DCI source	48	22 mA	0.002 A	0.0019968 A	0.0020004 A	0.0020032 A	-0.017%	TRUE
DCI source	49	22 mA	0.004 A	0.0039966 A	0.0040006 A	0.0040034 A	-0.014%	TRUE
DCI source	50	22 mA	0.012 A	0.0119958 A	0.0120004 A	0.0120042 A	-0.003%	TRUE
DCI source	51	22 mA	0.021 A	0.0209949 A	0.0210022 A	0.0210051 A	-0.010%	TRUE
Resistance source	52	10 Ω	0 Ω	0.0900 Ω	0.10200 Ω	0.1100 Ω	-1.961%	TRUE
Resistance source	53	10 Ω	1 Ω	0.9899 Ω	1.00280 Ω	1.0101 Ω	-0.279%	TRUE
Resistance source	54	10 Ω	10 Ω	9.9890 Ω	10.00180 Ω	10.0110 Ω	-0.018%	TRUE
Resistance source	55	100 Ω	20 Ω	19.9780 Ω	19.98400 Ω	20.0220 Ω	0.080%	TRUE
Resistance source	56	100 Ω	100 Ω	99.9700 Ω	99.98000 Ω	100.0300 Ω	0.020%	TRUE
Resistance source	57	1000 Ω	200 Ω	199.7600 Ω	199.967 Ω	200.2400 Ω	0.017%	TRUE
Resistance source	58	1000 Ω	1000 Ω	999.6000 Ω	999.912 Ω	1000.4000 Ω	0.009%	TRUE
Resistance source	59	10000 Ω	2000 Ω	1996.6000 Ω	1999.740 Ω	2003.4000 Ω	0.013%	TRUE
Resistance source	60	10000 Ω	10000 Ω	9995.0000 Ω	9999.100 Ω	10005.0000 Ω	0.009%	TRUE
Resistance source	61	10000 Ω	11000 Ω		10999.00 Ω		0.009%	TRUE

## No adjustments were performed or needed

\*DCI measure required DMM in series like in service manual Figure 2 with DUT due to incorrect readings with direct connection to Fluke 5720/H1 source