

Keithley 2002 - Feature #963

Calibration constants for K2002

02/13/2014 04:49 PM - tin

Status:	New	Start date:	02/17/2014
Priority:	Normal	Due date:	02/23/2014
Assignee:	tin	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	#1		

Description
 Read calibration values via :CAL:PROT:DATA? query
 Read calibration EEPROM at original state
 132 constants

Cal value	Description	K2002 #1 original val
g1	RMS gain for 2V, 200V, and 750V ranges	9.986900E-01
of1	RMS offset for 2V, 200V, and 750V AC ranges	5.367367E-05
g10	RMS gain for 200mV and 20V AC ranges	9.985891E+00
of10	RMS offset for 200mV and 20V AC ranges	-5.023695E-05
gfwr1	Average gain for 2V, 200V, and 750V AC ranges	1.000033E+00
offwr1	Average offset for 2V, 200V, and 750V AC ranges	-1.334560E-05
gfwr10	Average gain for 200mV and 20V AC ranges	9.999096E+00
offwr10	Average offset for 200mV and 20V AC ranges	2.446879E-06
a100	100:1 divider attenuation factor	1.000013E+02
a500	500:1 divider attenuation factor	4.969189E+02
ofpkpos10	Positive peak offset for 200mV AC range	3.668634E-03
ofpkneg10	Negative peak offset for 200mV AC range	9.856894E-03
ofpk1	Positive and negative peak offset for 2V, 200V, and 750V AC ranges	3.336559E-03
ofpkpos20	Positive peak offset for 20V AC range	3.743787E-03
ofpkneg20	Negative peak offset for 20V AC range	9.869237E-03
div100self	Self-calibration code for frequency compensation DAC, 100:1 divider	1.010000E+02
div500self	Self-calibration code for frequency compensation DAC, 500:1 divider	1.070000E+02
c200uaz	200?A zero	-4.717585E-05
c2maz	2mA zero	-4.721684E-05
c20maz	20mA zero	-4.710776E-05
c200maz	200mA zero	-4.662003E-05
c2az	2A zero	-4.691670E-05
cdivzx50	x50 divider zero	-2.841348E-05
c1000vz	1000V zero	-5.926422E-07
c200vz	200V zero	-2.310775E-06
c20vz	20V zero	-2.918041E-07
c10vz	10V zero	-2.640141E-07
c2vz	2V zero	-1.075348E-06
c200mvz	200mV zero	-1.353906E-05
c1mr4wz	1M? 4-wire zero	-3.202908E-07
c1mrz	1M? 2-wire zero	-2.153799E-07
c200kr4wz	200k? 4-wire zero	-1.181141E-06
c200krz	200k? 2-wire zero	-4.502233E-07
c20kr4wz	20k? 4-wire zero	-1.183365E-06
c20kr4wzon	20k? 4-wire zero OC on	1.423265E+00
c20kr4wzoff	20k? 4-wire zero OC off	1.423266E+00
c20krz	20k? 2-wire zero	5.626679E-06
c20krzon	20k? 2-wire zero OC on	1.423263E+00
c20krzoff	20k? 2-wire zero OC off	1.423257E+00
c2kr4wz	2k? 4-wire zero	-1.127782E-06
c2kr4wzon	2k? 4-wire zero OC on	1.423266E+00
c2kr4wzoff	2k? 4-wire zero OC off	1.423266E+00
c2krz	2k? 2-wire zero	6.617393E-05
c2krzon	2k? 2-wire zero OC on	1.423324E+00
c2krzoff	2k? 2-wire zero OC off	1.423256E+00
c200r4wz	200? 4-wire zero	-1.378339E-05
c200r4wzon	200? 4-wire zero OC on	1.779081E+00
c200r4wzoff	200? 4-wire zero OC off	1.779080E+00
c200rz	200? 2-wire zero	8.244049E-04
c200rzon	200? 2-wire zero OC on	1.779802E+00
c200rzoff	200? 2-wire zero OC off	1.778965E+00
c20r4wz	20? 4-wire zero	-1.291446E-05
c20r4wzon	20? 4-wire zero OC on	1.779083E+00
c20r4wzoff	20? 4-wire zero OC off	1.779081E+00
c20rz	20? 2-wire zero	6.280594E-03
c20rzon	20? 2-wire zero OC on	1.785259E+00
c20rzoff	20? 2-wire zero OC off	1.778965E+00
c2vfs	2V full scale	1.065217E+00
c7vref	7V reference	2.662950E-01
c20vfs	20V full scale	2.662938E+00
c20vfsdivx5	20V full scale divider x5	1.065216E-01
c20vfsdivx50	20V full scale divider x50	1.331427E+00
chiohmres	Hi ohms resistance	7.271218E-01
c1mrfs	1M? full scale	2.666166E-01
c200krfs	200k? full scale	5.332774E-01
c20krfs	20k? full scale	1.013331E+00
c20krfson	20k? full scale OC on	2.436599E+00
c20krfsoff	20k? full scale OC off	1.443531E+00
c2krfs	2k? full scale	1.013295E+00
c2krfson	2k? full scale OC on	2.436563E+00
c2krfsoff	2k? full scale OC off	1.425293E+00
c200rfs	200? full scale	1.266676E+00
c200rfson	200? full scale OC on	3.045771E+00
c200rfsoff	200? full scale OC off	1.781614E+00

c20rfs	20? full scale	9.499449E-01
c20rfson	20? full scale OC on	2.729043E+00
c20rfsoff	20? full scale OC off	1.779333E+00
c200uafs	200?A full scale	1.331226E+00
c2mafs	2mA full scale	1.331281E+00
c20mafs	20mA full scale	1.333395E+00
c200mafs	200mA full scale	1.348366E+00
c2afs	2A full scale	6.985593E-01
chihmvolt	Hi ohms voltage	1.999955E+00
usr2v	2V cal point	1.900000E+00
usr20v	20V cal point	1.899998E+01
usr1mr	1M? cal point	9.999023E+05
usr200kr	200k? cal point	9.999323E+04
usr20kr	20k? cal point	1.899921E+04
usr2kr	2k? cal point	1.899867E+03
usr200r	200? cal point	1.900105E+02
usr20r	20? cal point	1.899932E+01
usr200ua	200?A cal point	1.899989E-04
usr2ma	2mA cal point	1.899979E-03
usr20ma	20mA cal point	1.899963E-02
usr200ma	200mA cal point	1.900000E-01
usr2a	2A cal point	1.000000E+00
inttemp	Calibration temperature	4.719803E+01
acvalhigh	AC-coupled cal value for low ranges	1.996668E+00
dcvalhigh	AC-coupled cal value for high ranges	1.997126E+00
tmpdiv100	/100 divider cal value	1.015000E+02
divval2	Divider cal value 2	4.018134E-01
divval3	Divider cal value 3	1.997268E+00
tmpdiv200	/200 divider cal value	1.005000E+02
tmpdiv500	/500 divider cal value	1.100000E+02
acvallow	AC-coupled cal value for low ranges	1.497226E+00
dcvallow	DC-coupled cal value for low ranges	1.497816E+00
lowrngcorr	Correction factor for low ranges	1.997113E+00
maxdacfrwd1	Forward hysteresis DAC value	9.600000E+01
maxdacbkwd1	Backward hysteresis DAC value	1.240000E+02
vavnoise10	x10 average noise factor	4.788144E-03
dcdivcal	DC attenuator correction	5.606500E-01
rollm200mv	Negative full-scale rollover value	1.401576E-01
c20vz	Rear 20V zero	-1.401581E+00
c2vz	Rear 2V zero	-2.528971E-07
c200mvz	Rear 200mV zero	-1.156870E-06
c1mr4wz	Rear 1M? 4-wire zero	-1.426511E-05
c1mrz	Rear 1M? 2-wire zero	-2.292756E-08
c200kr4wz	Rear 200k? 4-wire zero	-2.876366E-07
c200krz	Rear 200k? 2-wire zero	8.559805E-08
c20kr4wz	Rear 20k? 4-wire zero	-6.219754E-07
c20krz	Rear 20k? 2-wire zero	1.028288E-07
c2kr4wz	Rear 2k? 4-wire zero	5.471605E-06
c2krz	Rear 2k? 2-wire zero	1.667494E-08
c200r4wz	Rear 200? 4-wire zero	6.620397E-05
c200rz	Rear 200? 2-wire zero	1.109323E-06
c20r4wz	Rear 20? 4-wire zero	8.247660E-04
c20rz	Rear 20? 2-wire zero	6.516983E-07
ampsac	AC-coupled amps cal value	6.295597E-03
ampsacdc	DC-coupled amps cal value	1.997413E+00
lfac	AC-coupled LFRMS cal value	1.998222E+00
lfacdc	DC-coupled LFRMS cal value	3.775987E-01
?	?	7.057743E-01

History

#1 - 02/13/2014 05:10 PM - tin

- Description updated

#2 - 02/13/2014 05:10 PM - tin

- Description updated

#3 - 03/09/2014 11:44 PM - tin

- Description updated