

Electrometer current calibration report for file: exp117030

CRC32 file validation = TRUE (ok.lines=231, not.ok.lines=0)
Consistency between index and number of lines in data file = FALSE
> Notes made during the analysis:
Current 23-step procedure
> End of notes.

| item | value |
|----------------------------------------------------------------|---------------------------------------------------|
| File | exp117030 |
| Cal. note | Cal-session-20 Current source = K6430 |
| Model (electrometer) | 'PTW-UNIDOS2-2.04' |
| SN (electrometer) | 776 |
| Range (electrometer) | 1 |
| Range of current supplied (min / max) | -10.0 nA / 10.0 nA |
| Cable (data file) | 'DTU-10528/DTU-10033' |
| Measurement time: start - stop | '12-10-2019 - 10:12:45' - '12-10-2019 - 11:36:41' |
| Duration | 83.94 min |
| Measured current variable (raw): | nA.read1 |
| Meas. current k.elec.predefined (prior information) | 1.0000000 |
| Meas. current multiplier to get nA | 1.0000000 |
| Applied input bias current correction (capped-off input read.) | 0.0 fA |
| Reference current basis (raw): | nA.K6430 |
| Ref. source calibration factor (nA pr. unit of ref. basis) | 0.9997000 |
| Grouping variable: | nA.K6430.setpoint |
| Lab. temperature | 22.75 degC |
| Lab. humidity | 40.8 %RH |
| Lab. pressure | 1001.38 hPa |
| k.elec.all (all data pooled; stat.limit = 25 %) | 0.999617 nA/nA sd = 0.008 % N = 16 |
| k.elec.pos (positive current only) | 0.999647 nA/nA sd = 0.006 % N = 8 |
| k.elec.neg (negative current only) | 0.999587 nA/nA sd = 0.008 % N = 8 |
| Polarity ratio: k.pol = k.elec.pos / k.elec.neg | 1.00006 |
| Polarity difference : k.elec.pos - k.elec.neg (ANOVA) | 0.000060 +/- 0.000036 p = 0.121 |
| Reference polarity for k.non.lin coeff | Negative (k.elec.neg) |
| Current at setpoint zero | 0.00 fA sd = 0.00 fA N = 27 |

| item | value |
|-------------------------------------------------|---------------------------------------|
| File | exp117030 |
| Cal. note | Cal-session-20 Current source = K6430 |
| Model (electrometer) | 'PTW-UNIDOS2-2.04' |
| SN (electrometer) | 776 |
| Range (electrometer) | 1 |
| Range of current supplied (min / max) | -10.0 nA / 10.0 nA |
| UPARM.current.u.base.abs | 0.000000 |
| UPARM.current.u.base.pct | 0.049000 |
| UPARM.current.u.minimum.step.abs | 0.000000 |
| UPARM.current.u.minimum.step.pct | 0.050000 |
| UPARM.current.u.input.bias.fA | 20.000000 |
| UPARM.AGGREGATE.current.u.minimum.abs | 0.000000 |
| UPARM.AGGREGATE.current.u.minimum.pct | 0.050000 |
| k.elec.all (all data pooled; stat.limit = 25 %) | 0.999617 nA/nA sd = 0.008 % N = 16 |
| k.elec.pos (positive current only) | 0.999647 nA/nA sd = 0.006 % N = 8 |
| k.elec.neg (negative current only) | 0.999587 nA/nA sd = 0.008 % N = 8 |
| UAGGREGATE.k.elec.all | 0.001011 (k=2) |
| UAGGREGATE.k.elec.pos | 0.001007 (k=2) |
| UAGGREGATE.k.elec.neg | 0.001013 (k=2) |

Electrometer current calibration (3 digits): 'PTW-UNIDOS2-2.04'SN776 (exp117030)

Non-linearity correction factors (reference = k.elec.neg; Negative):

| k.non.lin | k.elec.step | u.k.elec.step | N | sd.pct.nA.meas | nA.meas | sd.pct.nA.ref | nA.ref | nA.select |
|-----------|-------------|---------------|-------|----------------|---------|---------------|--------|-----------|
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -10.000 | -0.00 | -9.997 | -10 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -9.001 | -0.00 | -8.997 | -9 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -8.001 | -0.00 | -7.998 | -8 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -7.001 | -0.00 | -6.998 | -7 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -6.001 | -0.00 | -5.999 | -6 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -5.001 | -0.00 | -4.999 | -5 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -4.001 | -0.00 | -3.999 | -4 |
| 1 | 0.999 | 0.000 | 9.000 | 0.00 | -3.001 | -0.00 | -2.999 | -3 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -2.000 | -0.00 | -1.999 | -2 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | -1.000 | -0.00 | -1.000 | -1 |
| 1 | 1.000 | 0.000 | 9.000 | 0.01 | 1.000 | 0.00 | 1.000 | 1 |
| 1 | 1.000 | 0.001 | 9.000 | 0.00 | 1.999 | 0.00 | 1.999 | 2 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 3.000 | 0.00 | 2.999 | 3 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 4.000 | 0.00 | 3.999 | 4 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 5.000 | 0.00 | 4.999 | 5 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 6.000 | 0.00 | 5.998 | 6 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 7.001 | 0.00 | 6.998 | 7 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 8.001 | 0.00 | 7.998 | 8 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 9.001 | 0.00 | 8.997 | 9 |
| 1 | 1.000 | 0.000 | 9.000 | 0.00 | 10.000 | 0.00 | 9.997 | 10 |

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Electrometer current calibration (4 digits): 'PTW-UNIDOS2-2.04'SN776 (exp117030)

Non-linearity correction factors (reference = k.elec.neg; Negative):

| nA.select | nA.ref | sd.pct.nA.ref | nA.meas | sd.pct.nA.meas | N | u.k.elec.step | k.elec.step | k.non.lin |
|-----------|---------|---------------|----------|----------------|--------|---------------|-------------|-----------|
| -10 | -9.9972 | -0.00 | -10.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |
| -9 | -8.9974 | -0.00 | -9.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| -8 | -7.9979 | -0.00 | -8.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| -7 | -6.9985 | -0.00 | -7.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| -6 | -5.9986 | -0.00 | -6.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| -5 | -4.9987 | -0.00 | -5.0010 | 0.00 | 9.0000 | 0.0005 | 0.9995 | 1 |
| -4 | -3.9992 | -0.00 | -4.0010 | 0.00 | 9.0000 | 0.0005 | 0.9995 | 1 |
| -3 | -2.9993 | -0.00 | -3.0010 | 0.00 | 9.0000 | 0.0005 | 0.9994 | 1 |
| -2 | -1.9993 | -0.00 | -2.0000 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| -1 | -0.9997 | -0.00 | -1.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |
| 1 | 0.9997 | 0.00 | 1.0000 | 0.01 | 9.0000 | 0.0005 | 0.9997 | 1 |
| 2 | 1.9991 | 0.00 | 1.9990 | 0.00 | 9.0000 | 0.0007 | 1.0000 | 1 |
| 3 | 2.9990 | 0.00 | 3.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |
| 4 | 3.9988 | 0.00 | 4.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |
| 5 | 4.9985 | 0.00 | 5.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |
| 6 | 5.9983 | 0.00 | 6.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |
| 7 | 6.9981 | 0.00 | 7.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| 8 | 7.9976 | 0.00 | 8.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| 9 | 8.9971 | 0.00 | 9.0010 | 0.00 | 9.0000 | 0.0005 | 0.9996 | 1 |
| 10 | 9.9969 | 0.00 | 10.0000 | 0.00 | 9.0000 | 0.0005 | 0.9997 | 1 |

Details (all data) of electrometer current calibration: 'PTW-UNIDOS2-2.04'SN776 (exp117030)

| | | | | |
|----------------|----------------|-----------|-----------|-----------|
| no.irradiation | no.integration | nA.select | nA.ref | nA.meas |
| 1 | 1 | 0.000000 | -0.000000 | 0.00000 |
| 1 | 2 | 0.000000 | -0.000000 | 0.00000 |
| 1 | 3 | 0.000000 | -0.00000 | 0.00000 |
| 1 | 4 | 0.000000 | -0.000000 | 0.00000 |
| 1 | 5 | 0.000000 | -0.000000 | 0.00000 |
| 1 | 6 | 0.000000 | -0.00000 | 0.00000 |
| 1 | 7 | 0.000000 | -0.00000 | 0.00000 |
| 1 | 8 | 0.000000 | -0.00000 | 0.00000 |
| 1 | 9 | 0.000000 | -0.00000 | 0.00000 |
| 1 | 10 | 0.000000 | -0.00000 | 0.00000 |
| 2 | 1 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 2 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 3 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 4 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 5 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 6 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 7 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 8 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 9 | -1.000000 | -0.999721 | -1.000000 |
| 2 | 10 | -1.000000 | -0.999722 | -1.000000 |
| 3 | 1 | -2.000000 | -1.999284 | -2.000000 |
| 3 | 2 | -2.000000 | -1.999285 | -2.000000 |
| 3 | 3 | -2.000000 | -1.999286 | -2.000000 |
| 3 | 4 | -2.000000 | -1.999284 | -2.000000 |
| 3 | 5 | -2.000000 | -1.999285 | -2.000000 |
| 3 | 6 | -2.000000 | -1.999284 | -2.000000 |
| 3 | 7 | -2.000000 | -1.999285 | -2.000000 |
| 3 | 8 | -2.000000 | -1.999286 | -2.000000 |
| 3 | 9 | -2.000000 | -1.999282 | -2.000000 |
| 3 | 10 | -2.000000 | -1.999279 | -2.000000 |
| 4 | 1 | -3.000000 | -2.999307 | -3.001000 |
| 4 | 2 | -3.000000 | -2.999310 | -3.001000 |
| 4 | 3 | -3.000000 | -2.999308 | -3.001000 |
| 4 | 4 | -3.000000 | -2.999305 | -3.001000 |
| 4 | 5 | -3.000000 | -2.999305 | -3.001000 |
| 4 | 6 | -3.000000 | -2.999304 | -3.001000 |
| 4 | 7 | -3.000000 | -2.999303 | -3.001000 |
| 4 | 8 | -3.000000 | -2.999307 | -3.001000 |
| | | | | |

| 4 | 9 | -3.00000 | -2.999305 | -3.001000 |
|---|----|-----------|-----------|-----------|
| 4 | 10 | -3.00000 | -2.999300 | -3.001000 |
| 5 | 1 | -4.000000 | -3.999191 | -4.001000 |
| 5 | 2 | -4.000000 | -3.999189 | -4.001000 |
| 5 | 3 | -4.00000 | -3.999195 | -4.001000 |
| 5 | 4 | -4.000000 | -3.999196 | -4.001000 |
| 5 | 5 | -4.000000 | -3.999195 | -4.001000 |
| 5 | 6 | -4.000000 | -3.999194 | -4.001000 |
| 5 | 7 | -4.000000 | -3.999190 | -4.001000 |
| 5 | 8 | -4.000000 | -3.999188 | -4.001000 |
| 5 | 9 | -4.000000 | -3.999189 | -4.001000 |
| 5 | 10 | -4.000000 | -3.999190 | -4.001000 |
| 6 | 1 | -5.000000 | -4.998730 | -5.001000 |
| 6 | 2 | -5.000000 | -4.998726 | -5.001000 |
| 6 | 3 | -5.000000 | -4.998727 | -5.001000 |
| 6 | 4 | -5.000000 | -4.998732 | -5.001000 |
| 6 | 5 | -5.000000 | -4.998723 | -5.001000 |
| 6 | 6 | -5.000000 | -4.998731 | -5.001000 |
| 6 | 7 | -5.000000 | -4.998730 | -5.001000 |
| 6 | 8 | -5.000000 | -4.998730 | -5.001000 |
| 6 | 9 | -5.000000 | -4.998731 | -5.001000 |
| 6 | 10 | -5.000000 | -4.998733 | -5.001000 |
| 7 | 1 | -6.000000 | -5.998551 | -6.001000 |
| 7 | 2 | -6.000000 | -5.998555 | -6.001000 |
| 7 | 3 | -6.000000 | -5.998554 | -6.001000 |
| 7 | 4 | -6.000000 | -5.998554 | -6.001000 |
| 7 | 5 | -6.000000 | -5.998555 | -6.001000 |
| 7 | 6 | -6.000000 | -5.998554 | -6.001000 |
| 7 | 7 | -6.000000 | -5.998556 | -6.001000 |
| 7 | 8 | -6.000000 | -5.998550 | -6.001000 |
| 7 | 9 | -6.000000 | -5.998549 | -6.001000 |
| 7 | 10 | -6.000000 | -5.998553 | -6.001000 |
| 8 | 1 | -7.00000 | -6.998477 | -7.001000 |
| 8 | 2 | -7.00000 | -6.998483 | -7.001000 |
| 8 | 3 | -7.00000 | -6.998479 | -7.001000 |
| 8 | 4 | -7.00000 | -6.998487 | -7.001000 |
| 8 | 5 | -7.000000 | -6.998485 | -7.001000 |
| 8 | 6 | -7.000000 | -6.998485 | -7.001000 |
| 8 | 7 | -7.000000 | -6.998480 | -7.001000 |
| 8 | 8 | -7.000000 | -6.998485 | -7.001000 |
| | | | | |

| 8 | 9 | -7.000000 | -6.998484 | -7.001000 |
|----|----|------------|-----------|------------|
| 8 | 10 | -7.000000 | -6.998485 | -7.001000 |
| 9 | 1 | -8.000000 | -7.997892 | -8.001000 |
| 9 | 2 | -8.000000 | -7.997894 | -8.001000 |
| 9 | 3 | -8.000000 | -7.997893 | -8.001000 |
| 9 | 4 | -8.000000 | -7.997896 | -8.001000 |
| 9 | 5 | -8.000000 | -7.997895 | -8.001000 |
| 9 | 6 | -8.00000 | -7.997899 | -8.001000 |
| 9 | 7 | -8.00000 | -7.997895 | -8.001000 |
| 9 | 8 | -8.000000 | -7.997900 | -8.001000 |
| 9 | 9 | -8.00000 | -7.997897 | -8.001000 |
| 9 | 10 | -8.000000 | -7.997896 | -8.001000 |
| 10 | 1 | -9.000000 | -8.997428 | -9.001000 |
| 10 | 2 | -9.000000 | -8.997425 | -9.001000 |
| 10 | 3 | -9.000000 | -8.997430 | -9.001000 |
| 10 | 4 | -9.000000 | -8.997429 | -9.001000 |
| 10 | 5 | -9.000000 | -8.997426 | -9.001000 |
| 10 | 6 | -9.000000 | -8.997430 | -9.001000 |
| 10 | 7 | -9.000000 | -8.997429 | -9.001000 |
| 10 | 8 | -9.000000 | -8.997425 | -9.001000 |
| 10 | 9 | -9.000000 | -8.997430 | -9.001000 |
| 10 | 10 | -9.000000 | -8.997422 | -9.001000 |
| 11 | 1 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 2 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 3 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 4 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 5 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 6 | -10.000000 | -9.997210 | -10.000000 |
| 11 | 7 | -10.000000 | -9.997210 | -10.000000 |
| 11 | 8 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 9 | -10.000000 | -9.997220 | -10.000000 |
| 11 | 10 | -10.000000 | -9.997220 | -10.000000 |
| 12 | 1 | 0.00000 | -0.000000 | -0.000050 |
| 12 | 2 | 0.00000 | -0.000000 | 0.00000 |
| 12 | 3 | 0.00000 | -0.000000 | 0.00000 |
| 12 | 4 | 0.00000 | -0.000000 | 0.00000 |
| 12 | 5 | 0.00000 | -0.000000 | 0.00000 |
| 12 | 6 | 0.00000 | -0.000000 | 0.00000 |
| 12 | 7 | 0.00000 | -0.000000 | 0.00000 |
| 12 | 8 | 0.00000 | -0.000000 | 0.00000 |

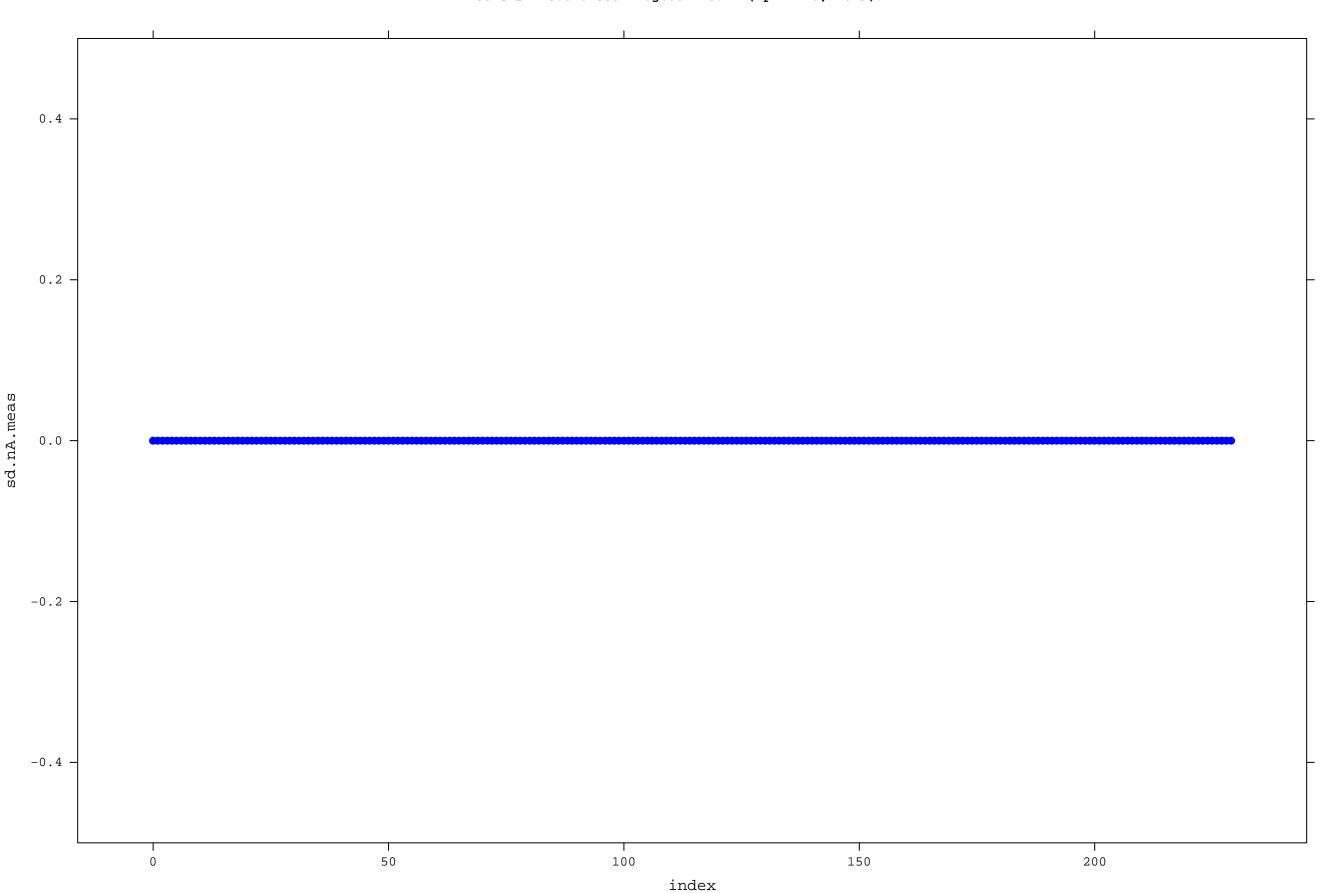
| 12 | 9 | 0.000000 | -0.000000 | 0.00000 |
|----|----|----------|-----------|----------|
| 12 | 10 | 0.00000 | -0.000000 | 0.000000 |
| 13 | 1 | 1.000000 | 0.999685 | 1.000000 |
| 13 | 2 | 1.000000 | 0.999685 | 1.000000 |
| 13 | 3 | 1.000000 | 0.999685 | 0.999900 |
| 13 | 4 | 1.000000 | 0.999685 | 1.000000 |
| 13 | 5 | 1.000000 | 0.999685 | 0.999900 |
| 13 | 6 | 1.000000 | 0.999685 | 1.000000 |
| 13 | 7 | 1.000000 | 0.999685 | 0.999900 |
| 13 | 8 | 1.000000 | 0.999685 | 1.000000 |
| 13 | 9 | 1.000000 | 0.999685 | 1.000000 |
| 13 | 10 | 1.000000 | 0.999685 | 0.999900 |
| 14 | 1 | 2.000000 | 1.999093 | 1.999000 |
| 14 | 2 | 2.000000 | 1.999096 | 1.999000 |
| 14 | 3 | 2.000000 | 1.999094 | 1.999000 |
| 14 | 4 | 2.000000 | 1.999095 | 1.999000 |
| 14 | 5 | 2.000000 | 1.999091 | 1.999000 |
| 14 | 6 | 2.000000 | 1.999089 | 1.999000 |
| 14 | 7 | 2.000000 | 1.999092 | 1.999000 |
| 14 | 8 | 2.000000 | 1.999093 | 1.999000 |
| 14 | 9 | 2.000000 | 1.999094 | 1.999000 |
| 14 | 10 | 2.000000 | 1.999092 | 1.999000 |
| 15 | 1 | 3.000000 | 2.998989 | 3.000000 |
| 15 | 2 | 3.000000 | 2.998982 | 3.000000 |
| 15 | 3 | 3.000000 | 2.998983 | 3.000000 |
| 15 | 4 | 3.000000 | 2.998986 | 3.000000 |
| 15 | 5 | 3.000000 | 2.998984 | 3.000000 |
| 15 | 6 | 3.000000 | 2.998984 | 3.000000 |
| 15 | 7 | 3.000000 | 2.998985 | 3.000000 |
| 15 | 8 | 3.000000 | 2.998987 | 3.000000 |
| 15 | 9 | 3.000000 | 2.998983 | 3.000000 |
| 15 | 10 | 3.000000 | 2.998985 | 3.000000 |
| 16 | 1 | 4.000000 | 3.998753 | 4.000000 |
| 16 | 2 | 4.000000 | 3.998753 | 4.000000 |
| 16 | 3 | 4.000000 | 3.998753 | 4.000000 |
| 16 | 4 | 4.000000 | 3.998751 | 4.000000 |
| 16 | 5 | 4.000000 | 3.998749 | 4.000000 |
| 16 | 6 | 4.000000 | 3.998751 | 4.000000 |
| 16 | 7 | 4.000000 | 3.998751 | 4.000000 |
| 16 | 8 | 4.000000 | 3.998752 | 4.000000 |

| 1.6 | 0 | 4 00000 | 2 22251 | 4 000000 |
|-----|----|----------|----------|----------|
| 16 | 9 | 4.000000 | 3.998751 | 4.000000 |
| 16 | 10 | 4.000000 | 3.998749 | 4.000000 |
| 17 | 1 | 5.000000 | 4.998520 | 5.000000 |
| 17 | 2 | 5.00000 | 4.998522 | 5.00000 |
| 17 | 3 | 5.000000 | 4.998523 | 5.000000 |
| 17 | 4 | 5.000000 | 4.998521 | 5.000000 |
| 17 | 5 | 5.000000 | 4.998526 | 5.000000 |
| 17 | 6 | 5.00000 | 4.998523 | 5.000000 |
| 17 | 7 | 5.000000 | 4.998522 | 5.000000 |
| 17 | 8 | 5.000000 | 4.998520 | 5.000000 |
| 17 | 9 | 5.000000 | 4.998521 | 5.000000 |
| 17 | 10 | 5.000000 | 4.998523 | 5.000000 |
| 18 | 1 | 6.000000 | 5.998256 | 6.000000 |
| 18 | 2 | 6.000000 | 5.998254 | 6.000000 |
| 18 | 3 | 6.000000 | 5.998256 | 6.000000 |
| 18 | 4 | 6.000000 | 5.998252 | 6.000000 |
| 18 | 5 | 6.000000 | 5.998257 | 6.000000 |
| 18 | 6 | 6.000000 | 5.998252 | 6.000000 |
| 18 | 7 | 6.000000 | 5.998254 | 6.000000 |
| 18 | 8 | 6.000000 | 5.998253 | 6.000000 |
| 18 | 9 | 6.000000 | 5.998252 | 6.000000 |
| 18 | 10 | 6.000000 | 5.998252 | 6.000000 |
| 19 | 1 | 7.000000 | 6.998106 | 7.001000 |
| 19 | 2 | 7.000000 | 6.998104 | 7.001000 |
| 19 | 3 | 7.000000 | 6.998102 | 7.001000 |
| 19 | 4 | 7.000000 | 6.998098 | 7.001000 |
| 19 | 5 | 7.000000 | 6.998099 | 7.001000 |
| 19 | 6 | 7.000000 | 6.998102 | 7.001000 |
| 19 | 7 | 7.000000 | 6.998103 | 7.001000 |
| 19 | 8 | 7.000000 | 6.998104 | 7.001000 |
| 19 | 9 | 7.000000 | 6.998096 | 7.001000 |
| 19 | 10 | 7.000000 | 6.998099 | 7.001000 |
| 20 | 1 | 8.000000 | 7.997626 | 8.001000 |
| 20 | 2 | 8.000000 | 7.997623 | 8.001000 |
| 20 | 3 | 8.000000 | 7.997621 | 8.001000 |
| 20 | 4 | 8.000000 | 7.997618 | 8.001000 |
| 20 | 5 | 8.000000 | 7.997618 | 8.001000 |
| 20 | 6 | 8.000000 | 7.997618 | 8.001000 |
| 20 | 7 | 8.000000 | 7.997623 | 8.001000 |
| 20 | 8 | 8.000000 | 7.997621 | 8.001000 |
| | | | | |

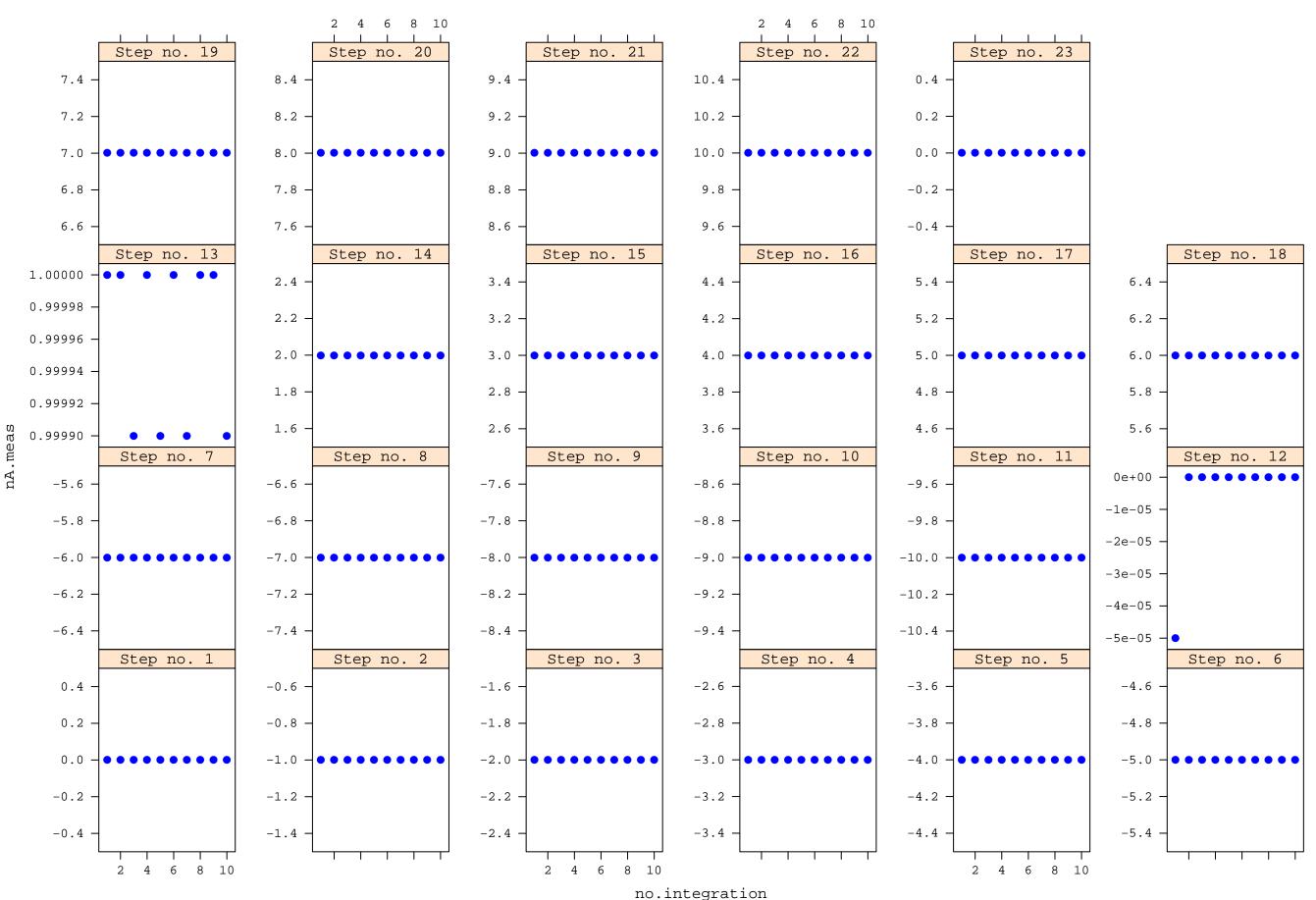
| 20 | 9 | 8.000000 | 7.997618 | 8.001000 |
|----|----|-----------|-----------|-----------|
| 20 | 10 | 8.000000 | 7.997620 | 8.001000 |
| 21 | 1 | 9.000000 | 8.997093 | 9.001000 |
| 21 | 2 | 9.000000 | 8.997088 | 9.001000 |
| 21 | 3 | 9.000000 | 8.997100 | 9.001000 |
| 21 | 4 | 9.000000 | 8.997098 | 9.001000 |
| 21 | 5 | 9.000000 | 8.997094 | 9.001000 |
| 21 | 6 | 9.000000 | 8.997100 | 9.001000 |
| 21 | 7 | 9.000000 | 8.997096 | 9.001000 |
| 21 | 8 | 9.000000 | 8.997100 | 9.001000 |
| 21 | 9 | 9.000000 | 8.997100 | 9.001000 |
| 21 | 10 | 9.000000 | 8.997100 | 9.001000 |
| 22 | 1 | 10.000000 | 9.996847 | 10.000000 |
| 22 | 2 | 10.000000 | 9.996853 | 10.000000 |
| 22 | 3 | 10.000000 | 9.996851 | 10.000000 |
| 22 | 4 | 10.000000 | 9.996860 | 10.000000 |
| 22 | 5 | 10.000000 | 9.996853 | 10.000000 |
| 22 | 6 | 10.000000 | 9.996857 | 10.000000 |
| 22 | 7 | 10.000000 | 9.996857 | 10.000000 |
| 22 | 8 | 10.000000 | 9.996857 | 10.000000 |
| 22 | 9 | 10.000000 | 9.996853 | 10.000000 |
| 22 | 10 | 10.000000 | 9.996857 | 10.000000 |
| 23 | 1 | 0.00000 | -0.00000 | 0.00000 |
| 23 | 2 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 3 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 4 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 5 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 6 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 7 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 8 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 9 | 0.000000 | -0.00000 | 0.00000 |
| 23 | 10 | 0.000000 | -0.000000 | 0.000000 |



exp117030 (all data) 10 -5 — 0 — -5 **-**-10 **-**50 1 150 200 100 index



exp117030



exp117030

