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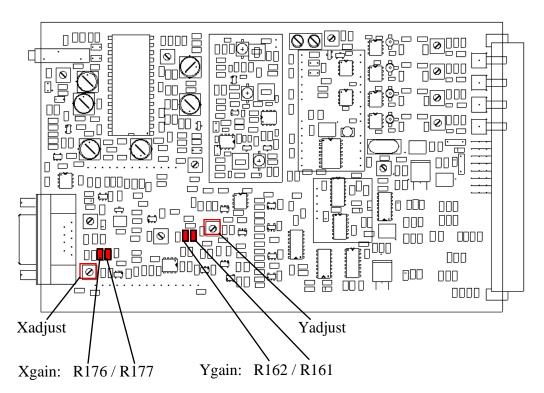
TECH NOTE

MX-BPM gain adjustment for board revision 101.0

The gains can be adjusted over a wide range by changing a few components: Xgain is determined by the equivalent resistance of R177 in parallel with R176. Ygain is determined by the equivalent resistance of R161 in parallel with R162.

The equivalent resistance as a function of the desired gain can be approximated by:

$$Requ[k\Omega] = \frac{0.93}{Gain [V/\%] - 0.034}$$



Example if the desired Xgain and Ygain are outside of the potentiometer adjustable range:

Say: Xgain = 0.10 V/%, Ygain = 0.11 V/%

- 1) Remove R176, R177, R162 and R161.
- 2) Xgain settings: R176=30K and R177=27K. R equivalent = 14K2 Fine gain adjustment by Xadjust
- 3) Ygain settings: R162=30K and R161=22K. R equivalent = 12K7 Fine gain adjustment by Yadjust

Data by Guy Verlooven, Apr. 14, 2004 Report by Julien Bergoz, Apr. 15, 2004