



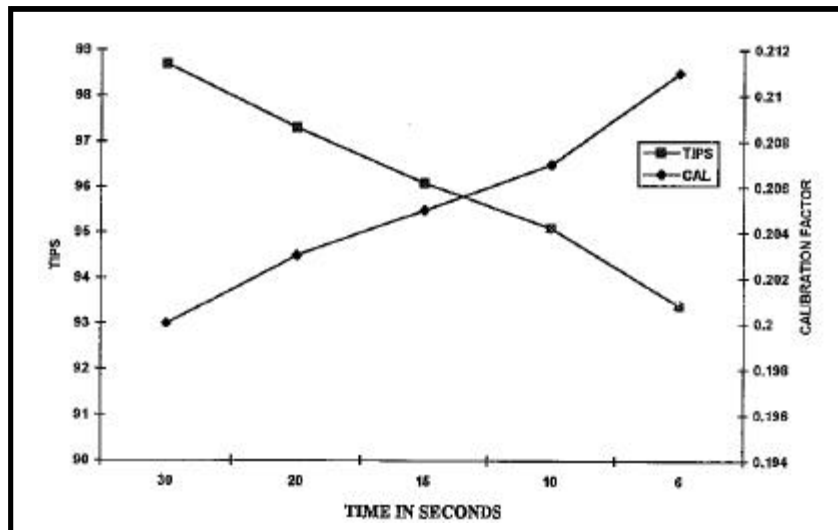
MINIMET

Raingauge Calibration & Accuracy

Some calibration tests on the performance of ARG100 raingauge at higher rain intensities have been carried out the results are as follows:

TABLE DISPLAYS THE CHANGE IN CALIBRTION WITH HIGHER RAIN INTENSITIES

Time for 0.2mm SECONDS	TIPS	CALIBRATION FACTOR
30	98.7	0.2
20	97.3	0.203
15	96.2	0.205
10	95.3	0.207
6	93.4	0.211



As you can see from the above table and graph the results seem quite favourable, however remember that all figures produced were in controlled conditions, there may be some environmental variable that could affect the overall performance of the raingauge, for example at the higher rates of rainfall the rain may or may not bounce out of the gauge?

Example:

At 2 tips per minute (30 seconds per tip or 24 mm/hr) calibration factor is 0.200 mm per tip. Increase to 10 tips per minute (6 seconds per tip or 120 mm/hr) and the calibration factor changes to 0.211 mm per tip, an overestimation of 5.5%