

QD 2000 SQUID "Amplifier" - Block Diagram

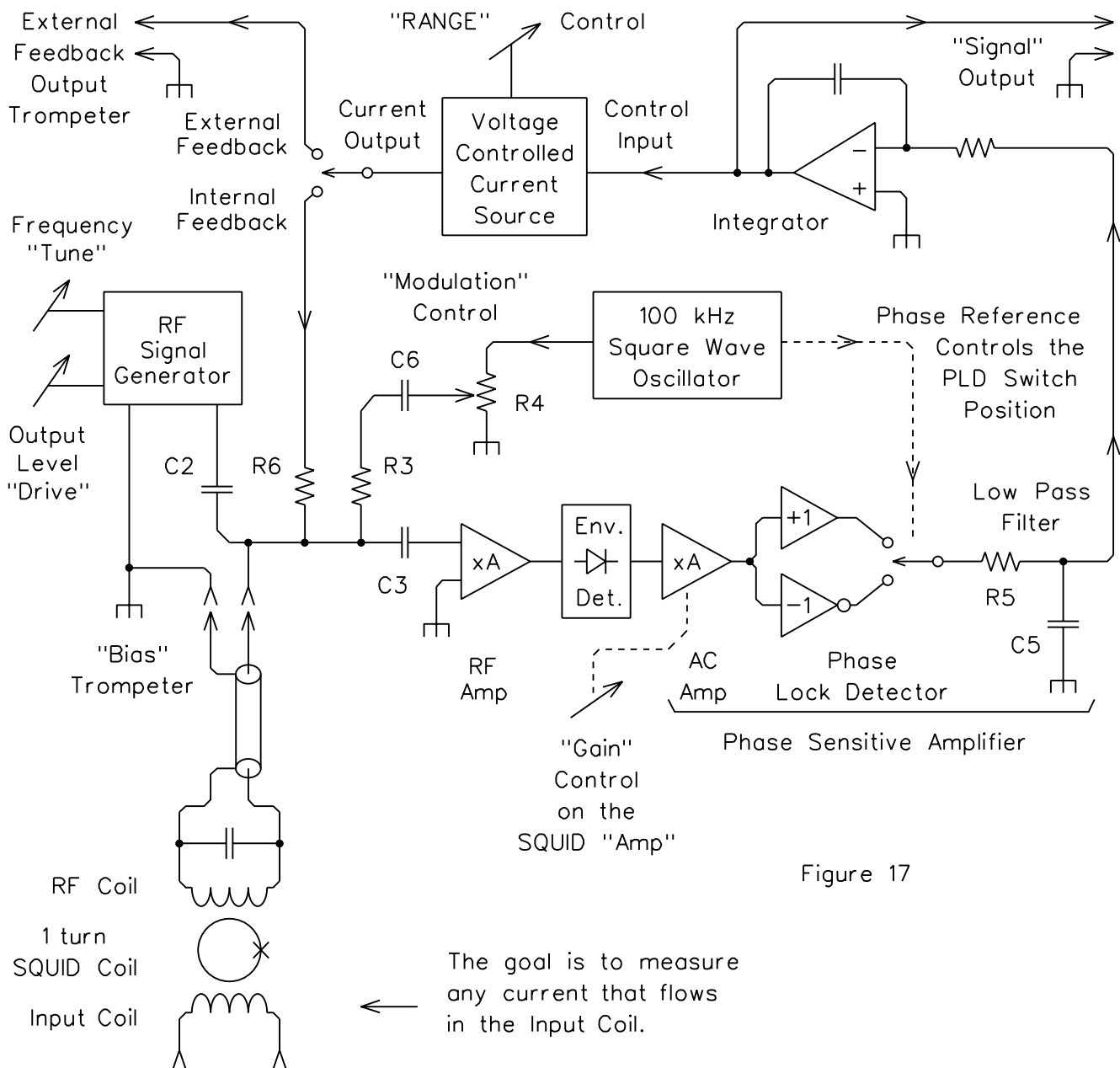


Figure 17 shows the major functional blocks in the small SQUID "Amplifier" box that are in use during normal "RUN" Mode operation. From the point of view of the SQUID "Amp" there are only two Modes of operation: "RUN" Mode and "SETUP" Mode.

During "RUN" Mode the Integrator's output is the "Signal" output from the SQUID "Amp". In the larger SQUID "ACU" box this "Signal" is optionally Low Pass Filtered (either: 1 Hz, 10 Hz, 50 Hz, or 100 Hz), then amplified (with a gain of: 1, 2, 5, or 10), and finally sent out the ACU's front panel BNC "Output" connector and displayed on its LED Bar Graph. QD expects people to plug a DVM into this BNC to readout the: Feedback Current ---> User's Input Current or the externally applied flux.