

Breda, may 30th 2004

Additions and modification.

Two items are added to the DDF96 design:

1: Addition of U14 to suppress the unwanted accidental false readings caused by undefined switch-over of U5 (Glitches).

2: LPT interface for PC-connection.

### **Suppression of Glitches:**

The switchoverpoint of U5 is initiated by Q5 of the 4040 (U12). This is an asynchrone ripplecounter witch outputs are thus unsynchronised and Q5 switches between the other output-timings. This can give unstable readings for certain bearings (glitches).

To avoid these glitches, U14 is added to put the switch-over timing away from the ripple of Q6 to Q9. In the pictures you can identify U14 upside down, glued at Q5 and then hi-wired to the desired points.

### **PC-interface:**

This interface gives de desired data format to the software as on this CD.

The interface is added with an extension PCB (no layout) as seen in the pictures, straight on a DB25 connector. It contains U13, U15 and U16.

The strobe data is memorized in U15 and U16 and placed on the LPT-port.

U13 is a pulse stretcher (Monostable multivibr.) to inform the PC that data is transmitted.

W/o signal, this output goes low.

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