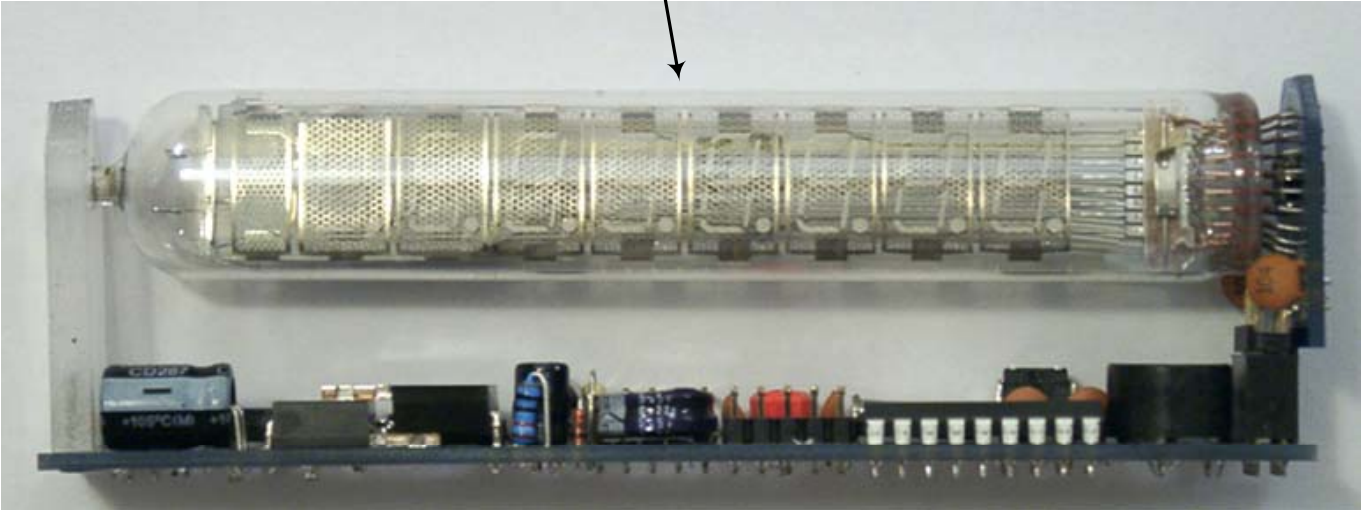# IV18 VFD Clock Layout Diagram   v.03

Warning!
- Do not mix polarity, as your IV-18 Clock will not work
- Use only approved and certified Wall Plug Power Supply module
- Power supply with less than 150mA output is not recommended.
- Less than 9V or more than 12V power supply is not advised.

IV18 tube Display front

Power Supply
Connector 9V DC

Warning!
- Do not mix polarity, as your IV-18 Clock will not work
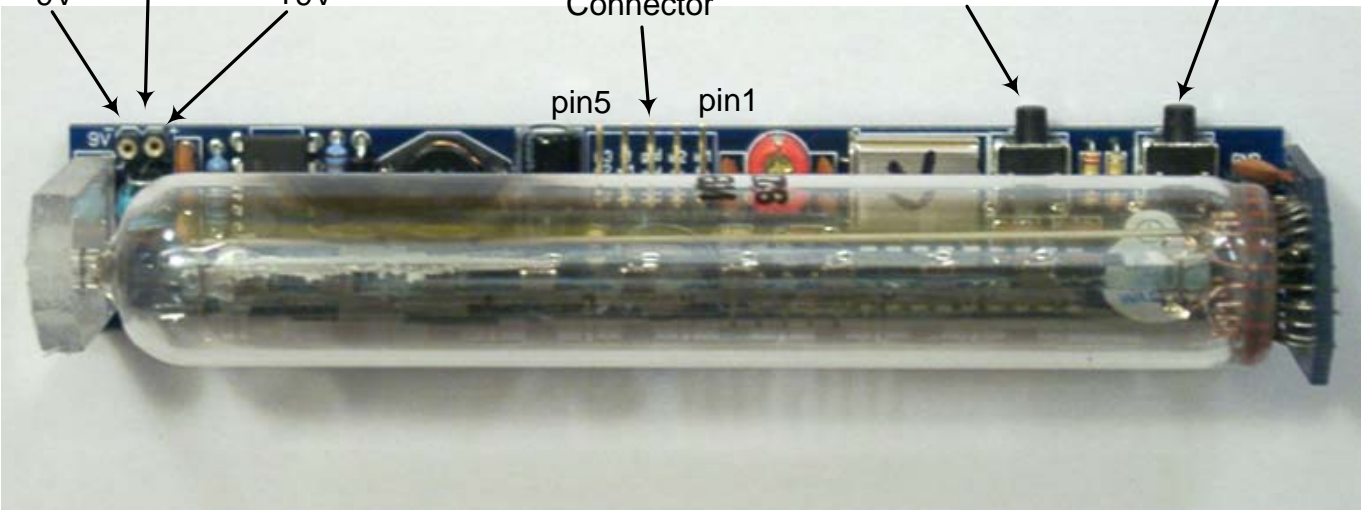
-9V   +9V

RS232/
IO
Connector

Button 2   Button 1

pin5   pin1

Rs232/IO connector:
Pin1 - Clock TX for TTL serial port connection
Pin2 - Clock RX for TTL serial port connection
Pin3 - Ground Contact
Pin4 – External output Alarm1 Contact
Pin5 - External output Alarm2 Contact

Please note, that to connect your clock to Personal Computer TTL to
proper RS232 level converter must be used. This converter can be
easily build on MAX232 Integrated Circuit.