## RoeTest – Computer Tube Tester / Tube Measuring System (c) - Helmut Weigl www.roehrentest.de

## Tube type (RoeArt.dbf):

•Note: Changes in the databases 'Röhrenart', "RöhrenSockel' and 'Regenerierdaten' will only be activated for the main program ('RoeTest.exe') when the main program is restarted!

Do not erase entries from the databases tube type, tube base and regeneration data and also do not change the description of existing entries as long as the main database with the tube data ('RoeTest.dbf') references them (for each tube the tube type, a tube base and eventually regeneration data are selected there). If entries are changed or erased when still being referenced in the tube database there will be error message (and possibly related error messages) when loading the tube data in the main program ('RoeTest.exe').

🚯 RoeTest DatenbankRoeTest - database				_		
type of tube system				Electrode desi	Electrode designations:	
Triode triode			A = plate			
A K G1 G2 G3	G4 G5 F1 F2 FM IV	S L A1 A2 ST1	ST2	G1-5 = grid K = Cathode		
m/k m k m	m m k k			F1,F2,FM = Heat S = Shield IV = do not conn		
at rail no.: 2 0 3				L= target, A1,A2		
Designation of rails allowed tests:						
rail 0: ground	0V	filament test	<b>V</b>	manual mode	<b>V</b>	
rail 1: + heater card	Н	testing for shorts	~	manual mode with series resistor		
rail 2: + anode/plate card	A	static tests:	$\overline{\mathbf{v}}$	nixie	Г	
rail 3: - G1/grid card	G1	transconductance:	$\overline{\mathbf{v}}$	neon stabilizer / neon lamp	Γ	
rail 4: + G2/screen card		transconductance positive G1		Zenerdiode		
rail 5: - G3 card		D of plate	~	Decatron / E1T		
		D of screen		Thyratron		
remarks: internal resistance 🔽 grid curves			grid curves			
	A	Vacuum test	~	plate curves:	<b>V</b>	
		test cathode isolation	~	screen curve		
		test Diodes with inverted hi voltage		curves by time	$\checkmark$	
				7-Segment		
Navigation dataset	<u>n</u> ew 🕞 duplicate			🗙 <u>a</u> bort	store	

In this file the tube type is entered, for example diode, triode, pentode...

It is defined whether a specific pin name must or may be present (m/k) and to which rail of the RoeTest the pin shall be connected to. Also the rails are named and with "ja"(yes) or "nein"(no) is defined which tests are allowed with this tube type.

The tube type is assigned to the respective systems in the main tube data base ("RoeTest.dbf").

The measuring software references the settings of the tube type, for example for

- Checking data consistency when loading the tube data
- Behavior of the measuring software
- Which electrodes to connect to which voltage sources
- Which tests are allowed for this tube type (non allowed ones are blocked)