ECKEL

Neueste digitale Technologie für Magnetmessungen und Material Tests

Eckel GbR • Am Teich 4 • D-19348 Berge GT Grenzheim

Eckel GbR
Dipl.-Ing. Werner Eckel
Dipl.-Ing. Martin Eckel
Am Teich 4
D-19348 Berge GT Grenzheim
☎ +49 38785 60910
Fax: +49 38785 60911
E-mail: info@w-eckel.com
Internet: http://www.w-eckel.com
Ust-IdNr: DE222079069
Steuer-Nr. 054/ 153/ 01660
Bankverbindung:
Kontonummer: 310778
Blz: 16060122
VR-Bank Prignitz eG.
IBAN: DE52 1606 0122 0000 3107 78

For the users of the Robograph 2

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Since modern ferrite materials do not have anymore the standard temperature coefficients of -0.2% / °C for Br and +0.4% / °C for jHc, already for some time users of the Robograph 2 can enter individual temperature coefficients of the ferrite material to the flux tolerance.

Now we noticed that there was some confusion about these coefficients. Bosch expected us to inform you about correct coefficients, but we expected Bosch to write the coefficients to the magnet drawing. In fact Bosch informed only about the material standard.

Thus we now integrated the Bosch temperature coefficient table to the Robograph program. In the tolerance window you can open the temperature coefficient table and select the desired material according to Bosch standard. This will set the correct temperature coefficients to the tolerance.

For all users that do not work with Bosch material standards, it is still possible to enter free coefficients by hand.

We made one more change:
Until now the temperature coefficients for temperature **compensation** were entered. Thus it was positive for Br / Psi and negative vor jHc / H to compensate the errors.
Since the Bosch table shows the **material** coefficients, we now also show them this way. So polarity of values has changed in tolerance and printout, but in fact there is no change in calculation.

Best Regards

W. Eckel

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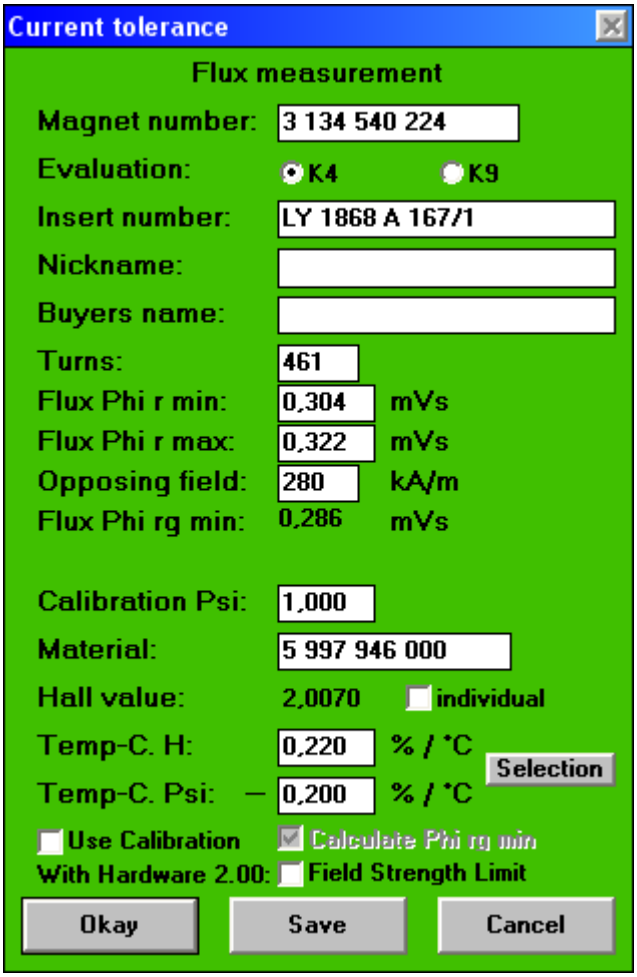
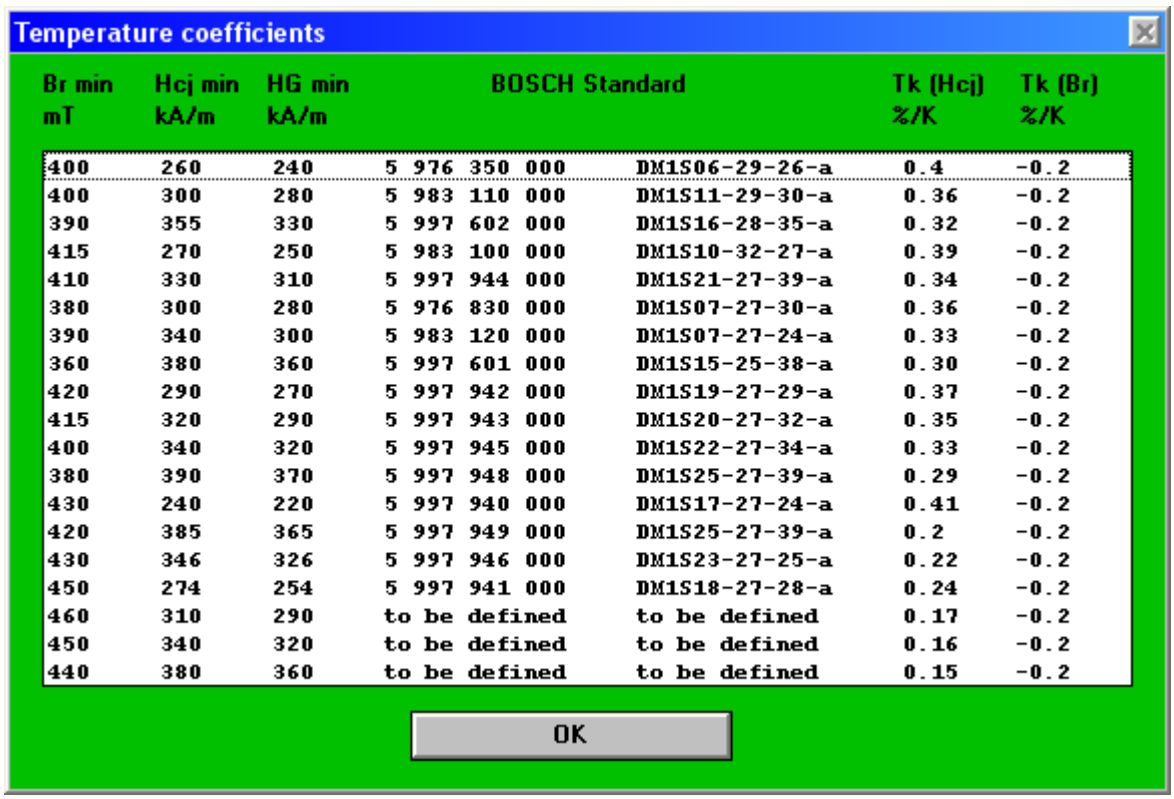


Flux tolerance window with “Selection” button.



Temperature coefficients

Br min mT	Hcj min kA/m	HG min kA/m	BOSCH Standard		Tk (Hcj) %/K	Tk (Br) %/K
400	260	240	5 976 350 000	DM1S06-29-26-a	0.4	-0.2
400	300	280	5 983 110 000	DM1S11-29-30-a	0.36	-0.2
390	355	330	5 997 602 000	DM1S16-28-35-a	0.32	-0.2
415	270	250	5 983 100 000	DM1S10-32-27-a	0.39	-0.2
410	330	310	5 997 944 000	DM1S21-27-39-a	0.34	-0.2
380	300	280	5 976 830 000	DM1S07-27-30-a	0.36	-0.2
390	340	300	5 983 120 000	DM1S07-27-24-a	0.33	-0.2
360	380	360	5 997 601 000	DM1S15-25-38-a	0.30	-0.2
420	290	270	5 997 942 000	DM1S19-27-29-a	0.37	-0.2
415	320	290	5 997 943 000	DM1S20-27-32-a	0.35	-0.2
400	340	320	5 997 945 000	DM1S22-27-34-a	0.33	-0.2
380	390	370	5 997 948 000	DM1S25-27-39-a	0.29	-0.2
430	240	220	5 997 940 000	DM1S17-27-24-a	0.41	-0.2
420	385	365	5 997 949 000	DM1S25-27-39-a	0.2	-0.2
430	346	326	5 997 946 000	DM1S23-27-25-a	0.22	-0.2
450	274	254	5 997 941 000	DM1S18-27-28-a	0.24	-0.2
460	310	290	to be defined	to be defined	0.17	-0.2
450	340	320	to be defined	to be defined	0.16	-0.2
440	380	360	to be defined	to be defined	0.15	-0.2

OK

Bosch temperature coefficient table