

LIMITED LIABILITY COMPANY
“SCIENTIFIC AND TECHNICAL CENTER “ENERGODIAGNOSTIKA”

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Accreditation certificate, Registration No. RA.RU 310546

VERIFICATION REPORT

No. 167/24

Measuring equipment: “TSC” type magnetometric instruments for testing

stress concentration

IFF registration No. 20675-11

Serial No.: 5M-32-052

Including scanning devices: Type 1-8M (No.1-8M-710), Type 11-6K (No. 057),

Type 6-12 (No. 6-12-111), Type 4

Customer name and address: “Inspect Test” SRL, Republic of Moldova

Verification type: periodic

Verification procedure: ИКН.000.000.000 РЭ, Appendix “2”

Verification means: registration No. 28808-05, YKM-1 magnetic induction measure,

ser. No. 01, order 2, ER $\pm 1,5$ %

Verification conditions:

Parameters	VP requirements	Measured values
Ambient air temperature, °C	20 ± 5	19
Relative humidity, %, max.	75	43
Atmospheric pressure, kPa	100 ± 5	98
Power supply voltage, V	220 ± 22	227
Mains frequency, Hz	50 ± 1	50

Verification results:

1 External inspection: complies with clause 6.1 of verification procedure

2 Testing: complies with clause 6.2 of verification procedure

3 Determination of metrological characteristics: complies with clause 6.3 of verification procedure

3.1 Determination of the magnetic field intensity measurement range

Intensity values for YKM-1, H_{YKM-1} magnetic field, A/m	Instrument readings, H_{TSC} , A/m							
	Channel No.							
	1	2	3	4	5	6	7	8
-1999	-1997	-1997	-1996	-1996	-1993	-1997	-1997	-1996
-1700	-1710	-1708	-1708	-1707	-1708	-1702	-1701	-1702
-1500	-1505	-1502	-1503	-1504	-1502	-1503	-1500	-1500
-1300	-1299	-1303	-1302	-1302	-1302	-1302	-1303	-1301
-1100	-1102	-1103	-1103	-1103	-1101	-1103	-1102	-1102
-900	-898	-900	-902	-902	-901	-902	-903	-901
-700	-702	-700	-700	-700	-700	-701	-702	-702
-500	-504	-501	-502	-502	-501	-501	-501	-502
-300	-305	-300	-298	-298	-304	-305	-301	-301
-100	-108	-108	-103	-103	-104	-103	-102	-103
-50	-50	-52	-51	-51	-52	-51	-52	-51
-10	-15	-12	-14	-17	-11	-13	-12	-16
+1999	1998	1998	1997	1997	1998	1998	1996	1996
+1700	1702	1703	1702	1702	1703	1704	1703	1702
+1500	1502	1502	1503	1504	1502	1503	1500	1502
+1300	1302	1303	1302	1302	1301	1302	1303	1301
+1100	1102	1103	1103	1103	1102	1103	1102	1102
+900	901	900	901	901	901	900	900	901
+700	703	702	700	701	700	698	701	699
+500	501	501	498	502	501	499	501	502
+300	302	302	298	298	297	300	299	299
+100	111	107	97	106	105	98	104	102
+50	54	59	46	55	48	47	52	51
+10	12	11	11	13	14	12	15	16

Magnetic field intensity measurement range: $\pm (10 \div 1999)$ A/m.

3.2 Determination of reduced relative error limits for measurement of the magnetic field intensity

Channel No.							
1	2	3	4	5	6	7	8
1.66	1.65	1.67	1.66	1.68	1.69	1.67	1.66

Reduced relative error limits for measurement of the magnetic field intensity: not more than $\pm 5\%$.

Conclusion: serviceable.

Verification Engineer



A.A. Dubov

Verification date:

December 20, 2024

3.1 Determination of the magnetic field intensity measurement range

Intensity values for YKM-1, HYKM-1 magnetic field, A/m	Instrument readings, HTSC, A/m					
	Channel No.					
	1	2	3	4	5	6
-1999	-1996	-1997	-1995	-1996	-1993	-1992
-1700	-1710	-1703	-1702	-1702	-1703	-1704
-1500	-1505	-1502	-1503	-1504	-1502	-1503
-1300	-1299	-1303	-1302	-1302	-1302	-1302
-1100	-1102	-1103	-1103	-1103	-1102	-1103
-900	-890	-900	-902	-902	-901	-900
-700	-702	-700	-700	-700	-700	-701
-500	-504	-501	-502	-502	-501	-501
-300	-305	-300	-298	-298	-300	-300
-100	-110	-100	-101	-101	-100	-105
-50	-60	-52	-55	-51	-56	-55
-10	-15	-10	-14	-11	-11	-13
+1999	1997	1997	1995	1996	1993	1992
+1700	1703	1703	1702	1702	1703	1704
+1500	1502	1502	1503	1504	1502	1503
+1300	1302	1303	1302	1302	1302	1302
+1100	1102	1103	1103	1103	1102	1103
+900	900	900	902	902	901	900
+700	700	700	700	701	700	698
+500	501	501	498	502	501	499
+300	300	300	298	298	297	300
+100	111	107	97	106	105	98
+50	54	59	46	55	48	47
+10	12	11	11	12	14	17

Magnetic field intensity measurement range: $\pm (10 \div 1999)$ A/m.

3.2 Determination of reduced relative error limits for measurement of the magnetic field intensity

Channel No.					
1	2	3	4	5	6
1.66	1.65	1.67	1.66	1.68	1.69

Reduced relative error limits for measurement of the magnetic field intensity: not more than $\pm 5\%$.

Conclusion: serviceable.

Verification Engineer



A.A. Dubov

Verification date:

December 20, 2024

3.1 Determination of the magnetic field intensity measurement range

Intensity values for YKM-1, HYKM-1 magnetic field, A/m	Instrument readings, HTSC, A/m											
	Channel No.											
	1	2	3	4	5	6	7	8	9	10	11	12
-1999	-1996	-1997	-1995	-1996	-1993	-1992	-1995	-1996	-1993	-1996	-1996	-1997
-1700	-1710	-1703	-1702	-1702	-1703	-1704	-1703	-1702	-1704	-1702	-1710	-1702
-1500	-1505	-1502	-1503	-1504	-1502	-1503	-1500	-1500	-1503	-1504	-1505	-1500
-1300	-1299	-1303	-1302	-1302	-1302	-1302	-1303	-1301	-1302	-1302	-1299	-1301
-1100	-1102	-1103	-1103	-1103	-1102	-1103	-1102	-1102	-1105	-1103	-1102	-1105
-900	-890	-900	-902	-902	-901	-900	-900	-901	-900	-900	-890	-901
-700	-702	-700	-700	-700	-700	-701	-702	-702	-701	-700	-702	-702
-500	-504	-501	-502	-502	-501	-501	-501	-502	-503	-502	-504	-502
-300	-305	-300	-298	-298	-300	-300	-299	-299	-300	-298	-301	-300
-100	-110	-100	-101	-101	-100	-105	-98	-101	-105	-101	-105	-101
-50	-60	-52	-55	-51	-56	-55	-52	-54	-55	-55	-55	-54
-10	-15	-10	-14	-11	-11	-13	-16	-12	-13	-14	-13	-14
+1999	1997	1997	1995	1996	1993	1992	1995	1996	1993	1996	1992	1997
+1700	1703	1703	1702	1702	1703	1704	1703	1702	1703	1702	1704	1703
+1500	1502	1502	1503	1504	1502	1503	1500	1502	1502	1504	1503	1502
+1300	1302	1303	1302	1302	1302	1302	1303	1301	1302	1302	1302	1303
+1100	1102	1103	1103	1103	1102	1103	1102	1102	1102	1103	1103	1103
+900	900	900	902	902	901	900	900	901	901	902	900	900
+700	700	700	700	701	700	698	701	699	700	701	698	700
+500	501	501	498	502	501	499	501	502	501	502	499	501
+300	300	300	298	298	297	300	299	299	297	298	300	300
+100	111	107	97	106	105	98	104	102	105	106	98	107
+50	54	59	46	55	48	47	52	51	48	55	47	59
+10	12	11	11	12	14	17	15	16	14	12	17	11

Magnetic field intensity measurement range: $\pm (10 \div 1999)$ A/m.

3.2 Determination of reduced relative error limits for measurement of the magnetic field intensity

Channel No.											
1	2	3	4	5	6	7	8	5	6	7	8
1.66	1.65	1.67	1.66	1.68	1.69	1.67	1.66	1.68	1.69	1.67	1.66

Reduced relative error limits for measurement of the magnetic field intensity: not more than $\pm 5 \%$.

Conclusion: serviceable.

Verification Engineer



A.A. Dubov

Verification date:

December 20, 2024

3.1 Determination of the magnetic field intensity measurement range

Intensity values for УКМ-1, Н _{УКМ-1} magnetic field, A/m	Instrument readings, H _{TSC} , A/m			
	Channel No.			
	1	2	3	4
-1999	-1994	-1997	-1990	-1998
-1700	-1710	-1702	-1702	-1708
-1500	-1505	-1501	-1502	-1502
-1300	-1302	-1301	-1301	-1299
-1100	-1102	-1102	-1103	-1101
-900	-899	-905	-901	-897
-700	-702	-698	-701	-704
-500	-502	-501	-503	-502
-300	-304	-305	-299	-298
-100	-110	-108	-98	-106
-50	-53	-60	-55	-57
-10	-16	-17	-14	-12
+1999	1992	1995	1996	1994
+1700	1702	1706	1698	1705
+1500	1502	1499	1502	1503
+1300	1302	1304	1305	1297
+1100	1103	1102	1103	1102
+900	901	900	901	900
+700	701	700	701	701
+500	501	501	503	502
+300	301	300	298	298
+100	108	108	108	106
+50	52	60	55	55
+10	12	11	15	14

Magnetic field intensity measurement range: $\pm (10 \div 1999)$ A/m.

3.2 Determination of reduced relative error limits for measurement of the magnetic field intensity

Channel No.			
1	2	3	4
1.69	1.66	1.72	1.67

Reduced relative error limits for measurement of the magnetic field intensity: not more than $\pm 5 \%$.

Conclusion: serviceable.

Verification Engineer



A.A. Dubov

Verification date:

December 20, 2024