

OGY SYMPOSIL

Third Edition: Future and New Solutions

A system for carrying out procedures of mass standards calibration in a measurement laboratory.

ČESK

INSTITUT

METROLOGICKÝ



RADWAG (M 16-18.04.2024, Radom, Poland



METROLOGY SYMPOSIUM DIGITALIZATION AND AUTOMATION IN MASS METROLOGY

Third Edition: Future and New Solutions

Presenter

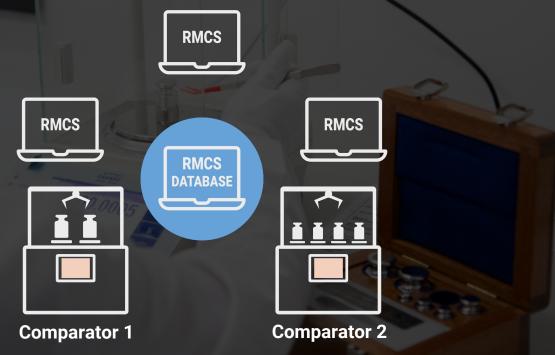
Cezary Górka

Software Development Manager



What the RMCS is and what it is for

RMCS Applications on different computers





What the RMCS is and what it is for

RMCS Applications on different computers



Remote operation and viewing of the mass comparator terminal Comprehensive support for the standard calibration procedure Laboratory management



What the standards calibration process looks like

Full management of customer standards calibration from order acceptance to certificate issuance.



Generating Calibration Certificate

Comparing the obtained results with OIML R-111 standard, and CMC value, checking the ambient conditions



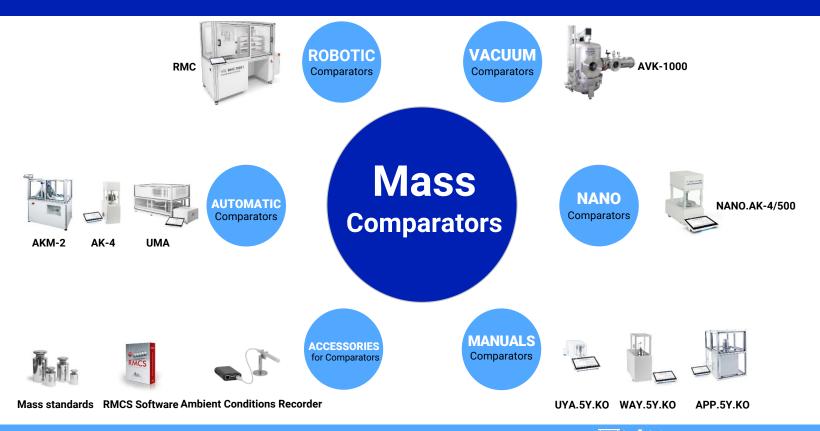
Compatibility with a wide range of RADWAG products

- RMCS is compatible with manual, automatic and robot comparators.
- Our THB sensors allow to carry out the precise environmental measurements.
- Simultaneous work at several computer workstations allows the full service of the entire office.



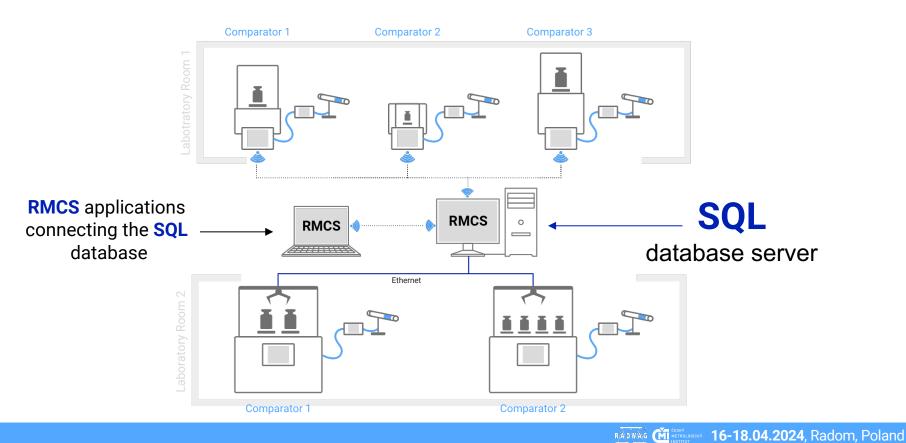


Compatibility with a wide range of RADWAG products



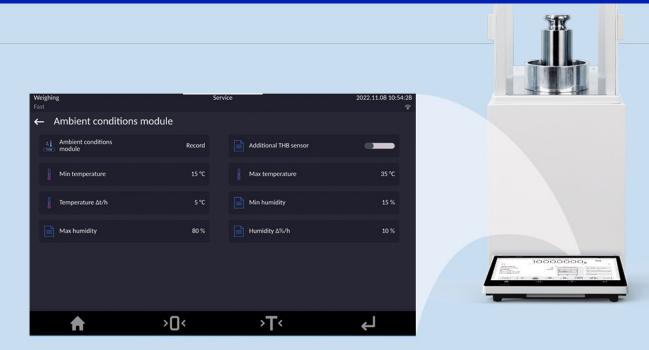


Precise measurements of the ambient conditions





OIML R-111



The program calculates the final calibration result together with estimation of the measurement uncertainty consistent with the OIML R-111-1 recommendation. RMCS contains a database of limit errors permissible for individual masses and classes of standards in accordance with OIML R-111. It also allows to define own value of a permissible error for the nontypical standards.

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We offer full compatibility with the **OIML R-111** recommendation.



Remote service of comparators - databases

- orders
- plans
- devices
- databases

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Comparison procedure no.	Status	Comparison procedure name	Comparator	Add date	Comparison procedure description	Added by
42498//23	IN PROGRESS	F1 200g SN:K-292/08 RADWAG Wagi Elektroniczne	WAY 1.4Y.KO	2023-12-18 15:28:42		Joanna Maiewska
E 42953//24	IN PROGRESS	30012	AKM-2/20	2024-01-09 15:37:27		Rafał Jakubowski
⊞ 42956//24	IN PROGRESS	30014	AKM-2/20	2024-01-10 09:59:03		Rafał Jakubowski
⊞ 43065//24	IN PROGRESS	E2 2mg, 50mg, 100mg K-2307/24	UMA 5	2024-01-16 07:09:01		Aneta Kaca
⊞ 43189//24	IN PROGRESS	E1 10mg C037029181 BZK Alco	UMA 5	2024-01-19 11:36:30		Aneta Kaca
⊞ 43764//24	IN PROGRESS	E2 500mg 30186 Maco	UMA 5	2024-02-13 10:11:19		Aneta Kaca
⊞ 43837//24	IN PROGRESS	F2 50-200g Frito Lay	WAY 1.4Y.KO	2024-02-15 10:24:45		Aneta Kaca
⊞ 43838//24	IN PROGRESS	F2 2,5,20g Frito Lay	MYA 21.4Y	2024-02-15 10:26:14		Aneta Kaca
⊞ 43839//24	IN PROGRESS	F2 500g-2kg Frito Lay	WAY 2.4Y.KO	2024-02-15 10:27:37		Aneta Kaca
⊞ 43987//24	IN PROGRESS	F2 2kg SN:8699 Frito	WAY 2.4Y.KO	2024-02-21 10:36:57		Joanna Majewska
H 44151//24	IN PROGRESS	F1 20g 19165 Polpack	MYA 21.4Y	2024-02-28 09:35:32		Aneta Kaca
⊞ 44153//24	IN PROGRESS	M1 20kg 19167 MEXY Polipack	AKM-2/20	2024-02-28 09:38:57		Aneta Kaca
⊞ 44164//24	IN PROGRESS	F2 200g 2187653 Medcell	WAY 1.4Y.KO	2024-02-28 11:35:03		Aneta Kaca
⊞ 44165//24	IN PROGRESS	M1 500g G2136052 Medcell	WAY 2.4Y.KO	2024-02-28 11:36:01		Aneta Kaca
⊞ 44167//24	IN PROGRESS	E2 20mg-5g 1215 Instytut Ogrodnictwa	UMA 5	2024-02-28 12:18:21		Aneta Kaca
⊞ 44168//24	IN PROGRESS	E2 10-100g 1215 Instytut Ogrodnictwa	UMA 100	2024-02-28 12:20:00		Aneta Kaca
⊞ 44169//24	IN PROGRESS	F14szt. FRESENIUS KABI	WAY 1.4Y.KO	2024-02-28 12:25:02		Marzena Skrzypczyń
⊞ 44170//24	IN PROGRESS	F2 1kg 65105 Instytut Ogrodnictwa	WAY 2.4Y.KO	2024-02-28 12:26:29		Aneta Kaca
⊞ 44171//24	IN PROGRESS	F1 4 szt FRENIUS KABI	WAY 2.4Y.KO	2024-02-28 12:26:52		Marzena Skrzypczyń
⊞ 44172//24	IN PROGRESS	E2 10mg-100mg Tristone	UMA 5	2024-02-28 12:40:55		Aneta Kaca
⊞ 44173//24	IN PROGRESS	F1 5g-20g Tristone Flowtech	MYA 21.4Y	2024-02-28 12:43:30		Aneta Kaca
⊞ 44174//24	IN PROGRESS	F1 100g 15990 Tristone Flowtech	WAY 1.4Y.KO	2024-02-28 12:44:33		Aneta Kaca
⊞ 44175//24	IN PROGRESS	M1 500g-2kg CTDI	WAY 2.4Y.KO	2024-02-28 12:49:24		Aneta Kaca
H 44176//24	IN PROGRESS	M1 100g 25761 CTDI	WAY 1.4Y.KO	2024-02-28 12:50:58		Aneta Kaca
H 44177//24	IN PROGRESS	M1 5kg 25767 CTD1	AKM-2/20	2024-02-28 12:52:04		Aneta Kaca
H 44178//24	IN PROGRESS	m	AKM-2/20	2024-02-28 13:21:45		Joanna Majewska



Remote service of comparators - terminal

Remote service of comparator terminals



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Wide range of functionality

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TFS

Supervision over your

equipment – RMCS stores its databases of all devices and will remind you about the expiring certificate deadlines

Wide range of functionality

- File storage allows to store certificates and documentation of the standards in the database and assign them to orders
- The template of each report and certificate can be conveniently adapted to the needs of your laboratory

Þ				Files storage	
н	iome Databases	List of mass comparators List	of THB devic	es Services Settings Files storage	
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	2018-04-18 07:58:43	1279.pdf	1470	RADWAG Region Lubuski Józef Tadeusz Korneluk	097695D56966E81EC202
	2018-04-17 15:07:27	1261-3975.pdf	438	RADWAG Wagi Elektroniczne	AAD377C4EA76A564376
	2018-04-17 15:06:08	1225(2).pdf	2755	RADWAG Wagi Elektroniczne	919FDAE28BCAB4DA80D
	2018-04-17 15:05:20	1225(1).pdf	4152	RADWAG Wagi Elektroniczne	3E8564E86FCDB44E5742
	2018-04-17 15:04:14	1274.pdf	378	Meditrial Internationals Ltd.	8582868908C99DCC5D9
	2018-04-17 14:41:06	1316-3993.pdf	521	RADWAG Wagi Elektroniczne	870D3B8711A5565F36FC
	2018-04-17 14:40:47	1316-3992.pdf	542	RADWAG Wagi Elektroniczne	93C57DE175B7F60EAD5-
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Wide range of functionality

 Full calibration history with the ability to filter the results

 Customer standards database enabling easy handling of repeated orders







Thank you for your attention

www.radwag.com

