Operating Manual
Service Manual

Peakmeter 1039HLD

RTW

RADIO-TECHNISCHE
WERKSTÄTTEN

INSTRUMENTS FOR
STUDIO APPLICATIONS

Serial Number:

Catalogue Number:

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RADIO-TECHNISCHE WERKSTÄTTEN GmbH & Co.KG

Hinweis

WARNUNG!



Bitte beachten Sie vor der Inbetriebnahme des Gerätes die folgenden Sicherheitshinweise:

Innerhalb des Gerätes befinden sich keine Teile, die der Wartung durch den Benutzer bedürfen.
Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden.
Überlassen Sie Wartungsarbeiten stets nur dem Fachmann.
Das Gerät ist für den Einsatz in geschlossenen Räumen vorgesehen.
Entfernen Sie keine Teile aus dem Gerät und führen Sie keine Modifikation am Gerät aus ohne die schriftliche Freigabe durch RTW.

Note

WARNING!



Please read this safety information before using the instrument:

Do not service or repair this product unless properly qualified.
Servicing should be peformed only by a qualified technician.
There are no user servicable parts inside the unit.
Do not open the case while the unit is connected to power. High voltage exists inside the instrument.
The device has been designed for indoor use only.
Do not substitute parts or make any modifications without the written approval of RTW.

RADIO-TECHNISCHE
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STÜCKLISTEN / PART LISTS

Description	ASSY No.	Seite/Page
PCB ASSY Basic	13495	2
PCB ASSY Display Driver	13461	5
PCB ASSY Loudness/Correlator	13732	6
ASSY Panel/Display	129784	9

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REF.NO	DESCRIPTION	VALUE			TYPE	MANUFACTURER	PART-NO
C01	Connector	32p			100-132-059	RTW	17696**
C02	Connector	12p			SL3/12/Z	RTW	14349
C05	Connector	3p			BL1/3/Z	RTW	14346
C05	Connector	12p			BL1/12/Z	RTW	14350
TR101	Transformer				ST5242	Haufe	14603
TR201	Transformer				ST5242	Haufe	14603
IC101	OP-AMP				NE5532	Texas-Instruments	17529
IC102	OP-AMP				TL062CP	Texas-Instruments	18016
IC103	OP-AMP				AD 712 JN	Linear	18081
IC104	OP-AMP				NE5532	Texas-Instruments	17529
IC105	OP-AMP				AD 712 JN	Linear	18081
IC201	OP-AMP				NE5532	Texas-Instruments	17529
IC202	OP-AMP				TL062CP	Texas-Instruments	18016
IC203	OP-AMP				AD 712 JN	Linear	18081
IC204	OP-AMP				NE5532	Texas-Instruments	17529
IC205	OP-AMP				AD 712 JN	Linear	18081
IC301	Timer				ICM7555	National	17514
IC302	IC-HC				74HC4040	National	18065
IC303 , IC304	EPROM-CMOS				NMS27C64	National	18012
IC305	OP-AMP				LF412	Motorola	18077
IC306	DA-Converter				DAC1222LCN	National	18013
IC307 - IC309	IC-HC				74HC4040	National	18065
IC310 , IC311	IC-HC				74HC688	National	18066
IC312	IC-HC				74HC08	Motorola	18042
IC313	IC-HC				74HC86	National	18033
IC314	IC-HC				74HC00	National	18021
IC315	Voltage Regulator				LM317T	National	17527
IC317	Voltage,Regulator				LM337LZ	National	18113
IC318	Voltage,Regulator				LM78L05	National	18015
T101 - T103	Transistor				BC239C	Intermetall	17450
T201 - T203	Transistor				BC239C	Intermetall	17450
T301	Transistor				MPSU 95	Motorola	17468
T302 , T303	Transistor				BC309C	Intermetall	17452
T304	Transistor				BC309C	Intermetall	17452
T305	Transistor				BC239C	Intermetall	17450
T306	Transistor				BC309C	Intermetall	17452
T307	Transistor				BC239C	Intermetall	17450
T308	Transistor				BC309C	Intermetall	17452
T309	Transistor				BC309C	Intermetall	17452
D101 - D108	Diode,Silicon				1N4148	ITT	17492
D201 - D208	Diode,Silicon				1N4148	ITT	17492
D301 , D303	Diode,Silicon				1N4148	ITT	17492
D305 - D313	Diode,Silicon				1N4148	ITT	17492
D314	Diode,Schottky				1N5819	Motorola	19401
D315	Diode,Reference	2.5V			LM336Z	National	18538
AR101	Resistor,Array	4,7K			4608X-102-4,7K	Bourns	17090
AR102 , AR103	Resistor,Array	10K			4608X-102-10K	Bourns	17091
AR105	Resistor,Array	10K			4608X-102-10K	Bourns	17091
AR201	Resistor,Array	4,7K			4608X-102-4,7K	Bourns	17090
AR202 , AR203	Resistor,Array	10K			4608X-102-10K	Bourns	17091
AR205	Resistor,Array	10K			4608X-102-10K	Bourns	17091
R101 , R102	Resistor,Metalfilm	4,7K	50ppm	1%	0207 MK2	Resista	17074

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REF.NO	DESCRIPTION	VALUE			TYPE	MANUFACTURER	PART-NO
R106	Resistor,Metalfilm	1,1K	50ppm	1%	0207 MK2	Resista	17051
R108	Resistor,Metalfilm	220K	50ppm	1%	0207 MK2	Resista	17054
R109	Resistor,Metalfilm	191K	50ppm	1%	0207 MK2	Resista	170948
R110	Resistor,Metalfilm	1.05K	50ppm	1%	0207 MK2	Resista	170812
R111	Resistor,Carbon	33K		5%	0207	Resista	17025
R112	Resistor,Metalfilm	15K	50ppm	1%	0207 MK2	Resista	17046
R113 , R114	Resistor,Metalfilm	22K	50ppm	1%	0207 MK2	Resista	17053
R116	Resistor,Carbon	2,2K		5%	0207	Resista	17016
R117	Resistor,Carbon	15K		5%	0207	Resista	17040
R119	Resistor,Carbon	4,7E		5%	0207	Resista	17000
R121	Resistor,Metalfilm	30,1E	50ppm	1%	0207 MK2	Resista	17044
R122	Resistor,Carbon	100K		5%	0207	Resista	17030
R123	Resistor,Carbon	15K		5%	0207	Resista	17040
R126	Resistor,Carbon	10K		5%	0207	Resista	17022
R127	Resistor,Carbon	10K		5%	0207	Resista	17022
R130	Resistor,Carbon	1K		5%	0207	Resista	17013
R131-R133	Resistor,Metalfilm	220K	50ppm	1%	0207 MK2	Resista	17054
R201 , R202	Resistor,Metalfilm	4,7K	50ppm	1%	0207 MK2	Resista	17074
R206	Resistor,Metalfilm	1,1K	50ppm	1%	0207 MK2	Resista	17051
R208	Resistor,Metalfilm	220K	50ppm	1%	0207 MK2	Resista	17054
R209	Resistor,Metalfilm	191K	50ppm	1%	0207 MK2	Resista	170948
R210	Resistor,Metalfilm	1.05K	50ppm	1%	0207 MK2	Resista	170812
R211	Resistor,Carbon	33K		5%	0207	Resista	17025
R212	Resistor,Metalfilm	15K	50ppm	1%	0207 MK2	Resista	17046
R213 , R214	Resistor,Metalfilm	22K	50ppm	1%	0207 MK2	Resista	17053
R216	Resistor,Carbon	2,2K		5%	0207	Resista	17016
R217	Resistor,Carbon	15K		5%	0207	Resista	17040
R219	Resistor,Carbon	4,7E		5%	0207	Resista	17000
R221	Resistor,Metalfilm	30,1E	50ppm	1%	0207 MK2	Resista	17044
R222	Resistor,Carbon	100K		5%	0207	Resista	17030
R223	Resistor,Carbon	15K		5%	0207	Resista	17040
R226	Resistor,Carbon	10K		5%	0207	Resista	17022
R227	Resistor,Carbon	10K		5%	0207	Resista	17022
R230	Resistor,Carbon	1K		5%	0207	Resista	17013
R231-R233	Resistor,Metalfilm	220K	50ppm	1%	0207 MK2	Resista	17054
R301	Resistor,Metalfilm	27K	50ppm	1%	0207 MK2	Resista	17049
R302	Resistor,Metalfilm	15K	50ppm	1%	0207 MK2	Resista	17046
R303	Resistor,Carbon	22K		5%	0207	Resista	17024
R305	Resistor,Metalfilm	4,7K	50ppm	1%	0207 MK2	Resista	17074
R306	Resistor,Metalfilm	470K	50ppm	1%	0207 MK2	Resista	17076
R307	Resistor,Metalfilm	2,2K	50ppm	1%	0207 MK2	Resista	17052
R308	Resistor,Metalfilm	1M	50ppm	1%	0207 MK2	Resista	17055
R309	Resistor,Carbon	10K		5%	0207	Resista	17022
R311	Resistor,Carbon	47K		5%	0207	Resista	17026
R313 , R314	Resistor,Carbon	10K		5%	0207	Resista	17022
R315	Resistor,Carbon	100K		5%	0207	Resista	17030
R316	Resistor,Carbon	10K		5%	0207	Resista	17022
R317	Resistor,Carbon	100K		5%	0207	Resista	17030
R318	Resistor,Carbon	10K		5%	0207	Resista	17022
R319	Resistor,Carbon	4,7K		5%	0207	Resista	17019
R319'	Resistor,Carbon	3,3K		5%	0207	Resista	17017

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REF.NO	DESCRIPTION	VALUE			TYPE	MANUFACTURER	PART-NO
R320	Resistor,Carbon	100K		5%	0207	Resista	17030
R321 , R322	Resistor,Carbon	10K		5%	0207	Resista	17022
R323	Resistor,Carbon	100K		5%	0207	Resista	17030
R324	Resistor, Metalfilm	1,5K	50 ppm	1%	0207 MK2	Resista	17014
R325 , R326	Resistor,Carbon	10K		5%	0207	Resista	17022
R327 , R328	Resistor,Carbon	100K		5%	0207	Resista	17030
R329	Resistor,Carbon	10K		5%	0207	Resista	17022
R330	Resistor,Carbon	47K		5%	0207	Resista	17026
R331	Resistor,Carbon	3,9K		5%	0207	Resista	17018
R332	Resistor,Carbon	270E		5%	0207	Resista	17008
R332	Resistor,Carbon	4,7K		5%	0207	Resista	17019
R333	Resistor,Carbon	3,3K		5%	0207	Resista	17017
R336	Resistor, Metalfilm	1,5K	50 ppm	1%	0207 MK2	Resista	17014
R337	Resistor,Carbon	270E		5%	0207	Resista	17008
R338	Resistor,Carbon	150E		5%	0207	Resista	17006
P1 , P2	Potentiometer,Trim	100E			3362P-001	Bourns	17134
P3 , P4	Potentiometer,Trim	10K			3362P-001	Bourns	17130
P5 , P6	Potentiometer,Trim	100K			3362P-001 100K	Bourns	17131
C106	Capacitor,Elect	22u	6,3V		SRA-VB	Chemi-Con	17321
C107	Capacitor,Ceramic	470p	100V	1%	AMC704	Resista	17371
C108	Capacitor,Ceramic	120p	COG	1%	AMC704	Resista	17369
C109	Capacitor,Ceramic	680p	COG	1%	AMC705	Resista	17372
C112	Capacitor,Elect	22u	6,3V		SRA-VB	Chemi-Con	17321
C113	Capacitor,Tantal	1,5u	35V		ETP1,5/35	Ero	17319
C114	Capacitor,Tantal	33u	10V	5%	ETPW-3G	Roederstein	17323
C115	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C206	Capacitor,Elect	22u	6,3V		SRA-VB	Chemi-Con	17321
C207	Capacitor,Ceramic	470p	100V	1%	AMC704	Resista	17371
C208	Capacitor,Ceramic	120p	COG	1%	AMC704	Resista	17369
C209	Capacitor,Ceramic	680p	COG	1%	AMC705	Resista	17372
C212	Capacitor,Elect	22u	6,3V		SRA-VB	Chemi-Con	17321
C213	Capacitor,Tantal	1,5u	35V		ETP1,5/35	Ero	17319
C214	Capacitor,Tantal	33u	10V	5%	ETPW-3G	Roederstein	17323
C215	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C301	Capacitor,Ceramic	470p	100V	1%	AMC704	Resista	17371
C302	Capacitor,Ceramic	22n	63V		ROY767.11	Roederstein	17352
C303	Capacitor,Elect	3,3u	50V		SRA-VB	Chemi-Con	17317
C304	Capacitor,Ceramic	12p	63V		ROC744.11	Roederstein	17359
C305	Capacitor,Ceramic	1,2n	63V		ROZ767.11	Roederstein	17351
C310 - C313	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
C314	Capacitor,Elect	100u	25V		SM-VB	Chemi-Con	17306
C315	Capacitor,Elect	220uF	35V			Thomson	17314
C316 , C317	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
C318	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
C319	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C322	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C323	Capacitor,Elect	3,3u	50V		SRA-VB	Chemi-Con	17317
C324 - C326	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
CT101 , CT201	Capacitor,Trim	30p				Valvo	17431
L301	Choke	100u			SP0406L-820	RTW	17699

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REF.NO	DESCRIPTION	VALUE			TYPE	MANUFACTURER	PART-NO
CO2	Connector	12p			BL1/12/Z	RTW	14350
CO3	Connector	6p			SL9/6G	RTW	14398
CO4	Connector	8p			MK1/08/Z	RTW	14355
CO6	Connector	16p			MICS	Lumberg	14334
CO7	Connector	3p			BL1/3/Z	RTW	14346
IC401 , IC402	IC-HC				74HC00	National	18021
IC403	IC-CMOS				CD4017BE	Texas-Instruments	17520
IC404	IC				ULN2023A	Texas Instruments	18056
T401 - T404	Transistor				BC337.25	Intermetall	17462
T405 , T406	Transistor				BC327.25	Intermetall	17461
T407	Transistor				MPSA 42	Motorola	17455
T408 , T409	Transistor				BC239C	Intermetall	17450
T410 , T411	Transistor				MPSA 42	Motorola	17455
T412 , T413	Transistor				MPSA 92	Motorola	17456
D401 - D412	Diode,Silicon				1N4148	ITT	17492
D413	Diode,Zener	150V			ZPU 150	ITT	19405
D414	Diode,Zener	75V			ZPY 75	ITT	19406
D416 - D420	Diode,Silicon				1N4148	ITT	17492
D423 - D432	LED				LUB371GK	Siemens	18524
D433	LED,yellow				LYB480F	Siemens	18525
D434 , D435	Diode,Silicon				1N4148	ITT	17492
AR401	Resistor,Array	100K			4608X-101-100K	Bourns	170901
R401 , R402	Resistor,Carbon	33K		5%	0207	Resista	17025
R403 , R404	Resistor,Carbon	10K		5%	0207	Resista	17022
R405	Resistor,Carbon	5,6M		5%	0207	Resista	17066
R406	Resistor,Carbon	100K		5%	0207	Resista	17030
R407 , R408	Resistor,Carbon	10K		5%	0207	Resista	17022
R409 , R410	Resistor,Carbon	3,3K		5%	0207	Resista	17017
R411 , R412	Resistor,Carbon	1M		5%	0207	Resista	17035
R413 , R414	Resistor,Metalfilm	18K	50ppm	1%	0207 MK2	Resista	17072
R415 , R416	Resistor,Carbon	1K		5%	0207	Resista	17013
R418 , R419	Resistor,Carbon	1K		5%	0207	Resista	17013
R420	Resistor,Carbon	22K		5%	0207	Resista	17024
R421	Resistor,Carbon	100K		5%	0207	Resista	17030
R422	Resistor,Carbon	100K		5%	0207	Resista	17030
R423	Resistor,Carbon	22K		5%	0207	Resista	17024
R424	Resistor,Carbon	100K		5%	0207	Resista	17030
R425	Resista,Carbon	18E		5%	0207	Resista	17003
R425'	Resistor,Carbon	22K		5%	0207	Resista	17024
R426	Resistor,Carbon	220E		5%	0207	Resista	17007
R428	Resistor,Carbon	1M		5%	0207	Resista	17035
C401 - C404	Capacitor,Ceramic	3,3n			C320 C332K2R5	Kemet	17393
C405 , C406	Capacitor,Polyester	10n	100V		MKT1818	Roederstein	17401
C407 - C421	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
C422 , C423	Capacitor,Ceramic	1,5n			EDPT06ROZ767P1	Roederstein	17387
C424	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422

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REF.NO	DESCRIPTION	VALUE		TYPE	MANUFACTURER	PART-NO
IC1	IC-HC			74HC74	National	18032
IC2, IC3	IC-HC			74HC163	Motorola	18036
IC4	IC-HC			74HC123	Motorola	18038
IC5	IC-HC			74HC00	National	18021
IC6	IC-HC			74HC02	Motorola	18030
IC7	IC-HC			74HC253	National	18047
IC100, IC101	OP-AMP			TL062CP	Texas-Instruments	18016
IC102	RMS to DC Converter			AD736JN	Analog Devices	18136
IC103, IC104	OP-AMP			TL062CP	Texas-Instruments	18016
IC105	RMS to DC Converter			AD736JN	Analog Devices	18136
IC106	OP-AMP			LF412	Motorola	18077
IC200	OP-AMP			TL062CP	Texas-Instruments	18016
IC201	Multiplier			XR2208CR	Exar	17532
IC202	OP-AMP			LF412	Motorola	18077
IC203 - IC205	OP-AMP			TL062CP	Texas-Instruments	18016
IC206, IC207	LED-Driver			LM3914N	National Semicond.	17531
IC208, IC209	IC-HC			74HC244	Motorola	18029
IC210	IC-CMOS			MC14520BCP	Motorola	17512
IC211	DA-Converter			DAC0806LCN	National Semicond.	18064
						.
T1	Transistor			BC309C	Intermetall	17452
T2	Transistor			BC239C	Intermetall	17450
T3	Transistor			BC309C	Intermetall	17452
T4, T5	Transistor			MPSA 42	Motorola	17455
T6	Transistor			BC309C	Intermetall	17452
T200 - T203	Transistor,FET			J 113	Siliconix	19006
T204	Transistor			BC309C	Intermetall	17452
T205	Transistor			BC239C	Intermetall	17450
T206	Transistor			BC309C	Intermetall	17452
T207	Transistor			BC239C	Intermetall	17450
T208	Transistor			BC309C	Intermetall	17452
						.
D1 - D25	Diode,Silicon			1N4148	ITT	17492
D200 - 203	Diode,Silicon			1N4148	ITT	17492
D204, D205	Diode,Zener	5,6V		ZPD5,6/BZX83-C5V6	ITT	17494
D206	Diode,Zener	6,8V		ZPD6,8/BZX83-C6V8	ITT	17485
D207	Diode,Silicon			1N4148	ITT	17492
D208	Diode,Silicon	10V		ZYP10		17489
D209	Diode,Silicon			1N4148	ITT	17492
						.
R1 - R4	Resistor,Carbon	22K	5%	0207	Resista	17024
R5	Resistor,Carbon	100K	5%	0207	Resista	17030
R6, R7	Resistor,Carbon	10K	5%	0207	Resista	17022
R8 - R10	Resistor,Carbon	100K	5%	0207	Resista	17030
R11 - R22	Resistor,Carbon	10K	5%	0207	Resista	17022
R23, R24	Resistor,Carbon	1M	5%	0207	Resista	17035
R25	Resistor,Carbon	1K	5%	0207	Resista	17013
R26	Resistor,Carbon	10K	5%	0207	Resista	17022
R27	Resistor,Carbon	100K	5%	0207	Resista	17030
R28	Resistor,Carbon	82K	5%	0207	Resista	17029
R29	Resistor,Carbon	100K	5%	0207	Resista	17030
R30, R31	Resistor,Carbon	10K	5%	0207	Resista	17022

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REF.NO	DESCRIPTION	VALUE			TYPE	MANUFACTURER	PART-NO
R100, R101	Resistor,Metalfilm	150K	50ppm	5%	0207	Resista	170937
R102, R103	Resistor,Metalfilm	68,1K	50ppm	1%	0207 MK2	Resista	170939
R104, R105	Resistor,Metalfilm	16,2K	50ppm	5%	0207	Resista	170975
R106, R107	Resistor,Metalfilm	301K	50ppm	1%	0207 MK2	Resista	170936
R108, R109	Resistor,Metalfilm	75K		1%	0207 MK2	Resista	170938
R110, R111	Resistor,Metalfilm	51,1K	50ppm	5%	0207	Resista	170974
R112, R113	Resistor,Metalfilm	24,3K	50ppm	5%	0207	Resista	170973
R114, R115	Resistor,Metalfilm	56,2K	50ppm	5%	0207	Resista	170971
R116, R117	Resistor,Metalfilm	20K	50ppm	1%	0207 MK2	Resista	170919
R118, R119	Resistor,Metalfilm	10K	50ppm	1%	0207 MK2	Resista	17059
R120, R121	Resistor,Metalfilm	43,2K	50ppm	5%	0207	Resista	170972
R122, R123	Resistor,Metalfilm	20K	50ppm	1%	0207 MK2	Resista	170919
R124, R125	Resistor,Metalfilm	47K	50ppm	1%	0207 MK2	Resista	17047
R126, R127	Resistor,Carbon	180K		5%	0207	Resista	17034
R128 - R137	Resistor,Carbon	10,0M		10%	0207	Resista	170944
R138, R139	Resistor,Carbon	1M		5%	0207	Resista	17035
R140, R141	Resistor,Carbon	10K		5%	0207	Resista	17022
R204, R105	Resistor,Carbon	1K		5%	0207	Resista	17013
R210, R211	Resistor,Carbon	33K		5%	0207	Resista	17025
R212	Resistor,Carbon	4,7K		5%	0207	Resista	17019
R213	Resistor,Carbon	1M		5%	0207	Resista	17035
R214, R215	Resistor,Carbon	68K		5%	0207	Resista	17028
R216, R217	Resistor,Carbon	4,7K		5%	0207	Resista	17019
R218 - R220	Resistor,Carbon	10K		5%	0207	Resista	17022
R222	Resistor,Carbon	4,7K		5%	0207	Resista	17019
R223	Resistor,Carbon	10K		5%	0207	Resista	17022
R224	Resistor,Carbon	100E		5%	0207	Resista	17005
R225 - R227	Resistor,Carbon	10K		5%	0207	Resista	17022
R229	Resistor,Metalfilm	4,99K	50ppm	1%	0207 MK2	Resista	170911
R230, R231	Resistor,Carbon	82K		5%	0207	Resista	17029
R232, R233	Resistor,Carbon	10K		5%	0207	Resista	17022
R234, R235	Resistor,Carbon	100K		5%	0207	Resista	17030
R236	Resistor,Carbon	10E		5%	0207	Resista	17001
R237	Resistor,Carbon	330E		5%	0207	Resista	17009
R238	Resistor,Carbon	680E		5%	0207	Resista	17012
R239	Resistor,Carbon	220E		5%	0207	Resista	17007
R240	Resistor,Carbon	330E		5%	0207	Resista	17009
R241	Resistor,Carbon	680E		5%	0207	Resista	17012
R242	Resistor,Metalfilm	12K	50ppm	1%	0207 MK2	Resista	17075
R243	Resistor,Metalfilm	3,3K	50ppm	1%	0207 MK2	Resista	17073
R248	Resistor,Carbon	22K		5%	0207	Resista	17024
R249	Resistor,Carbon	100K		5%	0207	Resista	17030
R250 - R252	Resistor,Carbon	4,7K		5%	0207	Resista	17019
R253	Resistor,Carbon	10K		5%	0207	Resista	17022
R254	Resistor,Carbon	100K		5%	0207	Resista	17030
R255	Resistor,Carbon	10K		5%	0207	Resista	17022
R256	Resistor, Metalfilm	1,5K	50 ppm	1%	0207 MK2	Resista	17014
R257	Resistor,Carbon	10K		5%	0207	Resista	17022
R258, R259	Resistor,Carbon	100K		5%	0207	Resista	17030
R261	Resistor,Carbon	100K		5%	0207	Resista	17030
R262	Resistor,Carbon	10K		5%	0207	Resista	17022

RTW
RADIO-TECHNISCHE
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REF.NO	DESCRIPTION	VALUE			TYPE	MANUFACTURER	PART-NO
R263, R264	Resistor,Carbon	100K		5%	0207	Resista	17030
R266	Resistor,Carbon	100K		5%	0207	Resista	17030
R267	Resistor,Carbon	10K		5%	0207	Resista	17022
R268	Resistor,Carbon	22K		5%	0207	Resista	17024
R269	Resistor,Carbon	100K		5%	0207	Resista	17030
P100 - P105	Potentiometer,Trim	100K			3362P-001 100K	Bourns	17131
P200	Potentiometer,Trim	100K			3362P-001 100K	Bourns	17131
P201, P202	Potentiometer,Trim	50K			PT 10 V	Piher	17113
AR200 - AR204	Resistor,Array	10K			4608X-102-10K	Bourns	17091
AR205, AR206	Resistor,Array	10K			4608X-101-10K	Bourns	17095
C1, C2	Capacitor,Ceramic	680p	COG	1%	AMC705	Resista	17372
C3 - C7	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C9	Capacitor,Polyester	22n	100V		MKT1818	Roederstein	17402
C10	Capacitor,Elect	3,3u	50V		SRA-VB	Chemi-Con	17317
C100 - C103	Capacitor,Polyester	10n	100V		MKT1818	Roederstein	17401
C104 - C107	Capacitor,Polyester	22n	100V		MKT1818	Roederstein	17402
C108 - C111	Capacitor,Ceramic	2,2n	63V		ROZ767.11	Roederstein	17358
C112, C113	Capacitor,Ceramic	1n	63V		ROZ767.11	Roederstein	17357
C114 - C117	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
C118 - C119	Capacitor,Elect	47u	16V		SM-VB	Chemi-Con	17304
C120, C121	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
C200 - C203	Capacitor,Elect	3,3u	50V		SRA-VB	Chemi-Con	17317
C204, C205	Capacitor,Tantal	0,68u	35V		ETP0,68/35	Ero	17313
C206, C207	Capacitor,Tantal	68u	6,3V		ETP68/6,3	Ero	17309
C208	Capacitor,Ceramic	100p	63V		ROV745.11	Roederstein	17355
C209	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C211, C212	Capacitor,Ceramic	22n	63V		ROY767.11	Roederstein	17352
C213	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422
C214	Capacitor,Elect	3,3u	50V		SRA-VB	Chemi-Con	17317
Cs+	Capacitor,Elect	10u	40V		SRA-VB	Chemi-Con	17318
Cs	Capacitor,Ceramic	0,1u	63V		Z5U	Sprague	17422

RADIO-TECHNISCHE
WERKSTÄTTEN GMBH

REF.NO	DESCRIPTION	VALUE	TYPE	MANUFACTURER	PART-NO
	Display-frame		1019HLR/1039HLD	RTW	165035
	Fixing-part			RTW	16537**
					.
	PCB-Assy Keyboard		1119E+ER/1134E/	RTW	134661
			1139E/1019HL+HR		
					.
	PCB-Assy Switch		1019HL+HR	RTW	13731
	Scale, sandwich		1039HL	RTW	167179
	Scale-Carriersheet		1019HL	RTW	165719**
	Bar-Graph-Display		201 Segments	RTW	17562

RTW
RADIO-TECHNISCHE
WERKSTÄTTEN GMBH

EG-Konformitätserklärung nach Artikel 10.1 der Richtlinie 89/336/EWG

Wir,

RTW GmbH
Elbeallee 19 · D-50765 Köln

erklären in alleiniger Verantwortung, daß das Produkt:

Peakmeter Typ 1039

auf das sich diese Erklärung bezieht, mit den folgenden Normen bzw. normativen Dokumenten übereinstimmt:

EN 50081-1:	EN 55022 B, gestrahlt
	EN 55022 B, leitungsgeführt
EN 50082-1:	IEC 801-2
	IEC 801-3
	IEC 801-4

Dieser Erklärung liegen Prüfberichte nachfolgend aufgeführter Firmen zugrunde:

ELEKLUFT GmbH, Bonn, akkreditiertes Prüflabor

Datum und Unterschrift des Verantwortlichen:

01.09.95 Klaus B. Kühn

RTW
RADIO-TECHNISCHE
WERKSTÄTTEN GMBH

EC Declaration of Conformity Directive 89/336/EEC

We,

RTW GmbH
Elbeallee 19 · D-50765 Köln

declare under sole responsibility that the product:

Peakmeter Typ 1039

meets the intend of the Directive 89/336/EEC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the official Journal of the European Communities:

EN 50081-1 Emissions:	EN 55022 Radiated, Class B
	EN 55022 Conducted, Class B
EN 50082-1 Immunity:	IEC 801-2
	IEC 801-3
	IEC 801-4

The declaration is based on test reports of following companies:

ELEKLUFT GmbH, Bonn, accredited EMC laboratory

Date and signature of the responsible person:

01.09.95 Hans B. Köln