



ROHDE & SCHWARZ

Measuring Instruments
and Systems Division

Manual

TEST ADAPTER FOR CURRENT AND VOLTAGE MEASUREMENTS CMT-Z6

844.3002.02

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1 Specifications

DC Voltage Measurements

Voltage measurement range	0 to ± 30 V
Resolution	10 mV up to 1 V test voltage 100 mV up to 30 V test voltage
Error ($V > 100$ mV)	5 % of measured value + resolution

DC Current Measurements

Current measurement range	0 to ± 10 A
Resolution	10 mA up to 1 A test current 100 mA up to 10 A test current
Error ($I > 100$ mA)	5 % of measured value + resolution

2 Operation

2.1 Putting into Operation

The test adapter option CMT-Z6 for current and voltage measurements requires for the CMT basis instrument a software state of ≥ 5.0 .

The long connecting cable of the test adapter CMT-Z6 is plugged into MEMORY socket 86 of the CMT. The measurements which are then no longer performed by the CMT but by the CMT-Z6 option, for instance offer the advantage that short current-carrying cables may be used. Currents are measured at the blue sockets via a shunt of 50 m Ω . Voltage measurements are carried out at the red/black sockets. For simultaneously measuring current and voltage, the blue and red/black sockets may be connected.

2.2 Manual Operation

Voltage and current measurements are initiated and terminated using the special functions to be entered via the key panel 39 in combination with SPEC key 55.

240	SPEC	Voltage measurement
241	SPEC	Current measurement
242	SPEC	Voltage and current measurement
243	SPEC	Termination of measurement

The values measured are output on the alphanumeric display 2. The results of current measuring, voltage measuring or combined measuring procedures are continuously output on the display in a measuring cycle of about 0.5 seconds. If a setting or measurement is activated, for which this display is also used, the voltage/ current measurement is switched off.

Exception:

If the modulation generators 1 or 2 are switched on during TX and RX test, a switchover from RX to TX or vice versa will due to this setting not terminate the voltage and current measurement procedure.

Overdriving the measured quantities ($|V| > 30$ V, $|I| > 10$ A) causes an overflow message of the CMT. In the case of current measurements, the measured value is first preceded by a triangle symbol. With currents of over 15.0 A, also an overflow message appears. No messages are output in the case of in-phase overdriving. In-phase drive plus voltage drive $|V| > 35$ V and current > 15 A may cause damage.

2.3 Automatic Operation

Since the test adapter option CMT-Z6 for current and voltage measurements is controlled via special functions only, remote control of CMT-Z6 via IEC bus can be derived from IEC bus commands for special functions:

SPECIALFUNCTION: DATA 240
SPECIALF: DA 240

e.g. for PUC/SCUD as controller

```
10 IECOUT 0, "SPECIALF:DA 240?"
20 IECIN 0, A$
30 PRINT A$
```

Output value: 12.5 V

No tolerance evaluation of these measurement results will be effected by the autorun control.

Automatic Switch-Off

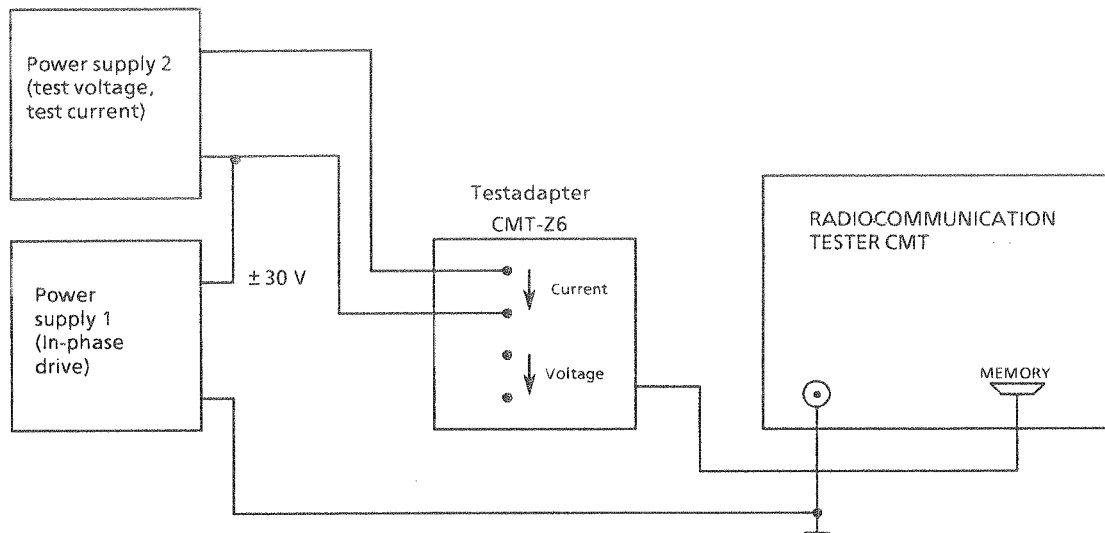
If the test adapter option CMT-Z6 measures values identical within a tolerance window of $\pm 5\%$ over a period of about 20 minutes, the measurement routine will then be deactivated so as not to put too much strain on the relays. Any five test values outside of the respective tolerance window will restart the timer.

3 Performance Test

3.1 Required Measuring Equipment and Accessories

2 Power supplies NGAS 32/10 (Order No. 192.0803.04)

Test setup:



3.2 Testing the Rated Specifications

The two tables listed below which also serve as performance test report specify the test points as functions of the parameters for in-phase drive. The maximum deviations are indicated as well.

3.2.1 Testing Voltage Measurements

Test voltage	In-phase drive								
	+ 29 V			0 V			-29 V		
	min		max	min		max	min		max
+ 30 V	-	-	-	28.4 V		31.6 V	-	-	-
+ 1 V	940 mV		1.15 V	940 mV		1.15 V	-	-	-
+ 100 mV	85 mV		115 mV	85 mV		115 mV	-	-	-
0 V	-10 mV *)		10 mV *)	-10 mV *)		10 mV *)	-10 mV *)		10 mV *)
- 100 mV	-	-	-	-115 mV		-85 mV	-115 mV		-85 mV
- 1 V	-	-	-	-1.15 V		-940 mV	-1.15 V		-940 mV
- 30 V	-	-	-	-31.6 V		-28.4 V	-	-	-

*) Internal tolerance

3.2.2 Testing Current Measurements

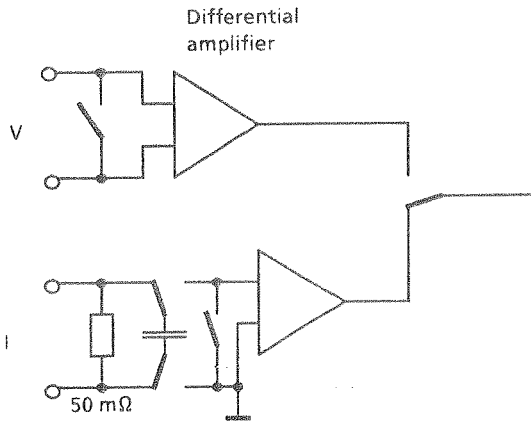
Test current	In-phase drive								
	+ 30 V			0 V			-30 V		
	min		max	min		max	min		max
+ 10 A	-	-	-	9.4 A		10.6 A	-	-	-
+ 1 A	-	-	-	0.94 A		1.15 A	-	-	-
+ 0.1 A	85 mA		115 mA	85 mA		115 mA	-	-	-
0 A	-10 mA *)		+ 10 mA *)	-10 mA *)		+ 10 mA *)	-10 mA *)		+ 10 mA *)
- 0.1 A	-	-	-	-115 mA		-85 mA	-115 mA		-85 mA
- 1 A	-	-	-	-1.15 A		-0.94 A	-	-	-
- 10 A	-	-	-	-10.6 A		-9.4 A	-	-	-

*) Internal tolerance

4 Service Instructions

(see circuit diagram No. 0844.3102 S)

4.1 Functional Description



Basic circuit diagram of the test adapter option CMT-Z6

The test adapter CMT-Z6 consists of the following sections:

- Voltage measurement input section (K1, N1, N2)
- Current measurement input section (K2, N3, N4A)
- Output section (N4B, N5)
- Control interface (D1 to D4)
- Voltage supply (N6)

Voltage Measurement Input Section

The voltage measurement input section consists of a differential input stage with switch-selectable voltage gain. Unwanted input voltages due to offset or in-phase drive are determined by means of relay K1, which combines the voltage measurement inputs.

Current Measurement Input Section

Currents are measured via a 50 mΩ shunt. In the voltage range of ± 30 V, potential-independent measurements are obtained. To this end, the test voltage applied to capacitor C24 is first stored on the source potential and then by means of two relays taken to a ground reference, while at the same time the storage capacitors are disconnected from the shunts. Unwanted voltages again are determined using D3 by means of a short circuit across the input of amplifier N3 and later considered by software.

Output Section

The function of this section is to amplify the test voltage, which is switchable from the current path or the voltage path, and to apply it to the CMT.

Control Interface

A serial data channel with data, clock and strobe is converted into a parallel word. The relays and analog switches are driven by the control voltages.

Voltage Supply

The connecting plug only supplies +5 V as operating voltage. However, the operational amplifiers are operated with ± 5 V. The integrated control switch N6 produces the lacking negative operating voltage.

4.2 Testing and Adjustment

Required measuring equipment and accessories:

2 Power supplies, e.g. NGAS 32/10

1 Digital voltmeter, e.g. UDL 44

Test purpose	Input	Test parameter		Setting	Output	Test result
Supply of voltage/ current	X3 B1 X3 A2	+ 5 V ± 0,25 V		----	P4	< 60 mA (after initialization, due to relays) V = -5 V ± 0.25 V
Current measure- ment path	X21 X22	0 mA		Bit 1 3 4 7	X3 A3 X3 A2	2 V ± 20 mV = ΔV ₁ Offset 1.33 V + ΔV ₁ ± 20 mV
		0.1 A		1 1 1 0 1 1 1 1 *)		
		1 A		1 1 0 0		
		1 A		1 1 0 1 *)		
		10 A		1 0 0 0		
10 A		1 0 0 1 *)			2 V ± 20 mV = ΔV ₂ Offset 1.33 V + ΔV ₂ ± 20 mV	
In-phase drive 0 V. Sampling test with in- phase drive 30 V.		*) Measurements must be performed within 0.1 to 0.5 sec. following switch-over due to discharge of current measurement capa- citor.				2 V ± 20 mV = ΔV ₃ Offset 1.33 V + ΔV ₃ ± 20 mV
Same results as in the case of in-phase drive 0 V.						
Voltage measure- ment path	X11 X12	Test voltage	In-phase voltage	Bit 1 4 5 6	X3 A3 X3 A2	
		0	0 V	0 1 1 0		
		0	30 V	0 1 1 0		
		0	-30 V	0 1 1 0		
		100 mV	0 V	0 1 1 0		
		100 mV	0 V	0 1 1 1		
		1 V	0 V	0 1 0 0		
		1 V	0 V	0 1 0 1		
		10 V	0 V	0 1 1 0		
		10 V	0 V	0 1 1 1		
0		0 V	0 1 1 0			2 V ± 20 mV 2 V ± 1 V 2 V ± 1 V
100 mV		0 V	0 1 1 0			2 V ± 20 mV = ΔV ₁ Offset 0.66 V + ΔV ₁ ± 30 mV
100 mV		0 V	0 1 1 1			2 V ± 20 mV = ΔV ₂ Offset 0.66 V + ΔV ₂ ± 30 mV
1 V		0 V	0 1 0 0			2 V ± 20 mV = ΔV ₃ Offset 0.66 + ΔV ₃ ± 100 mV
1 V		0 V	0 1 0 1			
10 V		0 V	0 1 1 0			
10 V		0 V	0 1 1 1			

4.3 Interface Data

4.3.1 Software Interface

Bit	D2 Pin	Function	Data
0	4	no function	---
1	5	I/V measurement	0: Voltage 1: Current
2	6	no function	---
3	7	Amplification in the current measurement path	0: 0 dB 1: 20 dB
4	14	Amplification in the combined path	0: 0 dB 1: 20 dB
5	13	Amplification in the voltage measurement path	0: 0 dB 1: 20 dB
6	12	Wanted/unwanted voltage measurement in the V-path	0: unwanted 1: wanted
7	11	I-acquisition of test value/evaluation 0: C24 fitted at the test socket (simultaneous measurement of unwanted voltage) 1: charge on C24 is transferred to input N3 0 → 1: "charge transport"	0: acquisition 1: evaluation

4.3.2 Hardware Interface

Plug/Pin	Input (E) output (A) point (P)	Function	Data	Remarks
X21 X22	E E	Current measurement input(+) Current measurement input(-)	1 0 to ± 10 A with 0 to ± 30 V ┘ relative to \perp	
X11 X12	E E	Voltage measurement input(+) Voltage measurement input(-)	1 0 to ± 30 V ┘	
X3 A2	E	\perp	---	
X3 B2	A	Option poll at D 2.6	---	
X3 B1	E	+ 5 V supply	+ 5 V \pm 0,25 V I < 60 mA	after initialization
X4 B2 X4 A2 X4 A1	E E E	Data Clock Strobe	TTL TTL TTL	
X3 B3 X4 B1	---	Coding	---	
X3 A3 X3 A2	A A	Test output Test reference ground	0 to 4 V	
P1 P2 P3 P4	P P P P	Test voltage for voltage Test voltage for current Test voltage for combined path negative operating voltage	-2 to + 2 V -2 to + 2 V -2 to + 2 V -5 V \pm 0.25 V	



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Schaltteillisten

Stromläufe

Bestückungspläne

Part lists

Circuit diagrams

Components plans

Listes des pièces détachées

Schémas de Circuit

Plans des composants

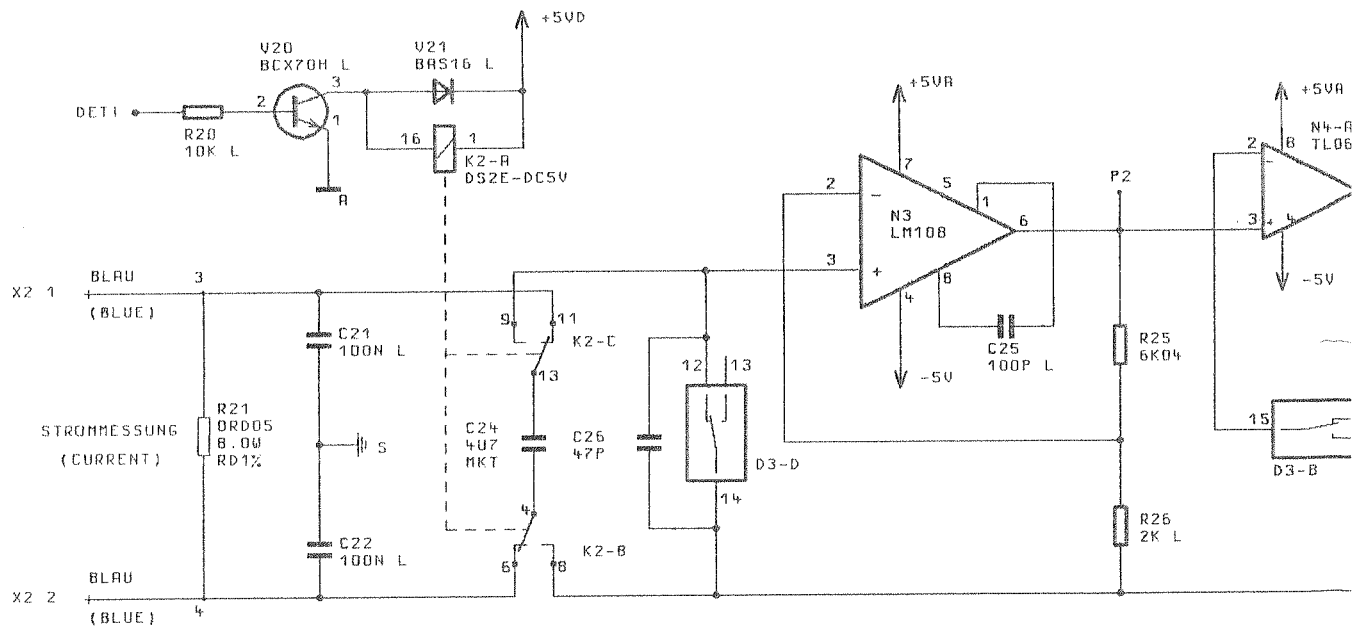
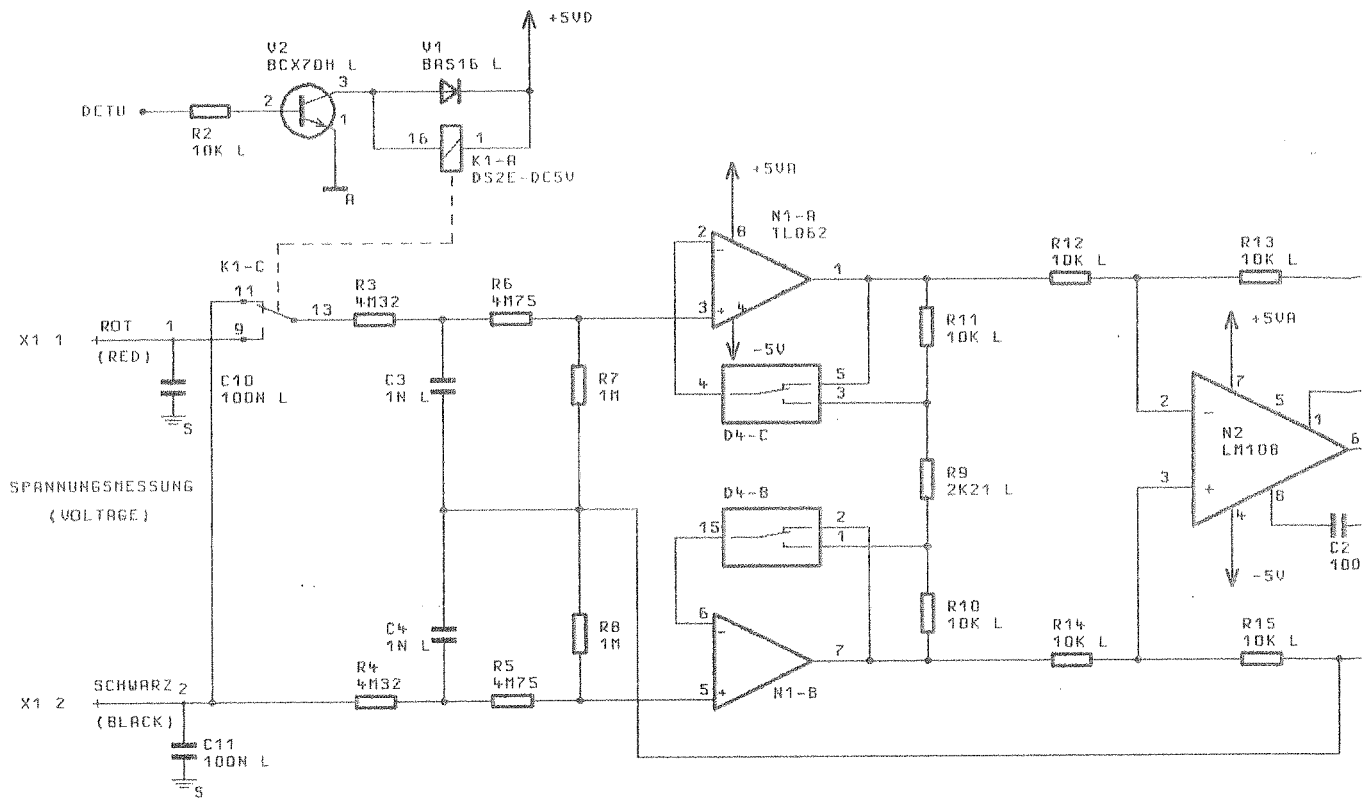
Kennz. Comp.No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in	
.	ZUGEH.STROML./CIRC.DIAGR. 844.3102/S					
A1	ED DC-MESSUNG DC-MEASURE-PART	844.3102.02				
R21	RD 8W 0,05 OHM+-1% GEH. WIRE WOUND RESISTOR	RD 689.8824	DALE	RH-10 0,05OHM 1%		
W150	DX MEMORYKABEL MEMORY CABLE	844.3402				
X11	VK RAENDELKL.ISOL.ROT KNURLED CLAMP	VK 219.5300	ELMA	BV 42267		
X12	VK RAENDELKL.ISOL.SCHWARZ KNURLED CLAMP	VK 219.5316	ELMA	BV 42268		
X21	VK RAENDELKL.ISOL.BLAU KNURLED CLAMP	VK 219.5339	ELMA	BV 42270		
X22	VK RAENDELKL.ISOL.BLAU KNURLED CLAMP	VK 219.5339	ELMA	BV 42270		
- ENDE -						
ROHDE & SCHWARZ		Äl	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock Nr.	Blatt Page
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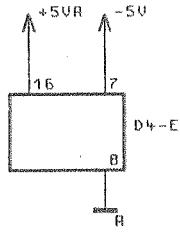
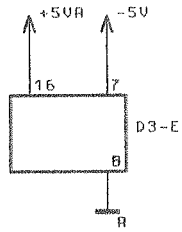
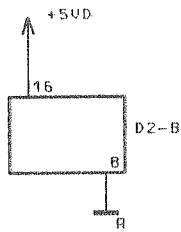
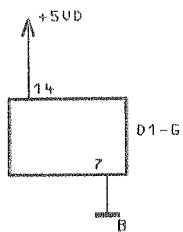
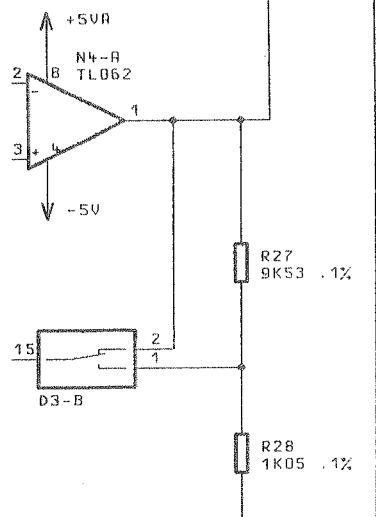
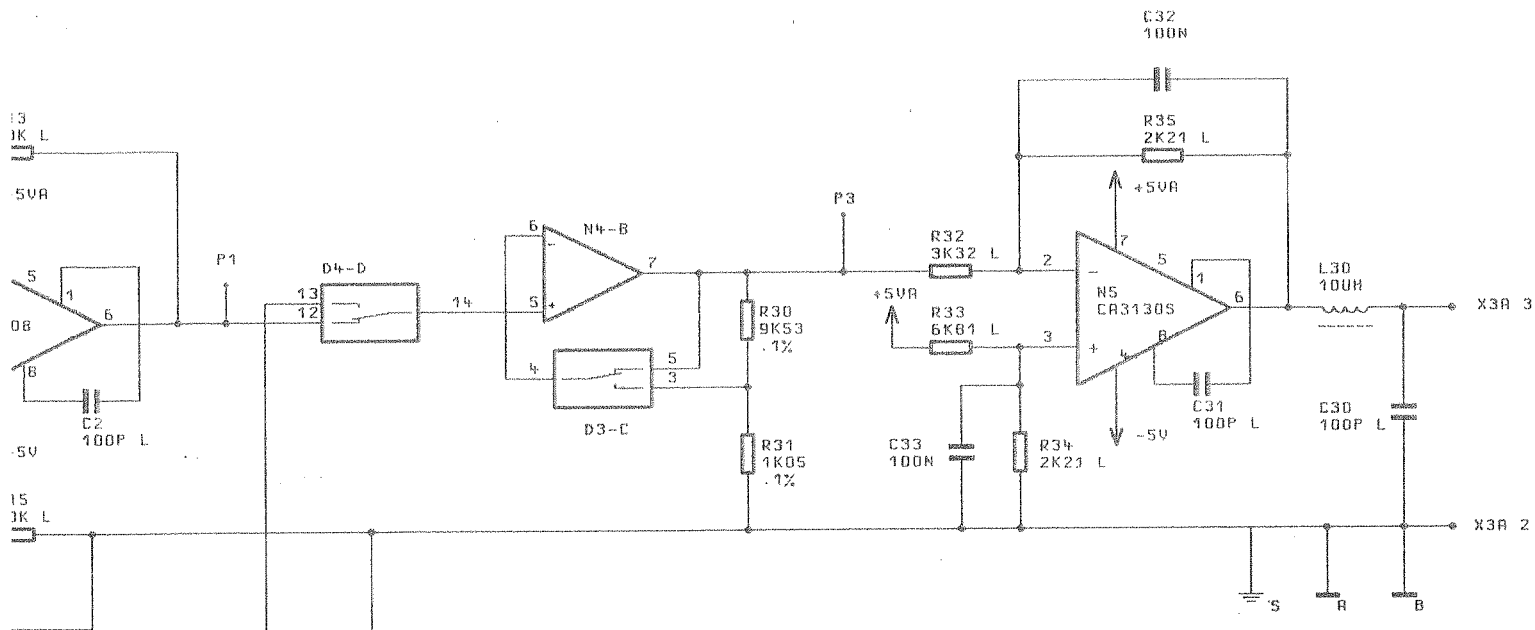
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C2	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 099.8415	VITRAMON	VJ1206 A 101 F FAT	
C3	CC 1NF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 007.7398	VITRAMON	VJ1206 A 102 F FAT	
C4	CC 1NF+-1% 50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 007.7398	VITRAMON	VJ1206 A 102 F FAT	
C10	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 007.5237	VITRAMON	VJ1206 Y 104 K FAT	
C11	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 007.5237	VITRAMON	VJ1206 Y 104 K FAT	
C21	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 007.5237	VITRAMON	VJ1206 Y 104 K FAT	
C22	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 007.5237	VITRAMON	VJ1206 Y 104 K FAT	
C24	CK 4,7UF+-10% 63V QUADER CAPACITOR	CK 024.7005	ROEDERST	MKT1822-547/06/10%	
C25	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 099.8415	VITRAMON	VJ1206 A 101 F FAT	
C26	CC 47PF+-2%5X6NPO CAPACITOR	CC 087.6506	VALVO	2222 678 10479	
C30	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 099.8415	VITRAMON	VJ1206 A 101 F FAT	
C31	CC 100PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR	CC 099.8415	VITRAMON	VJ1206 A 101 F FAT	
C32	CK 100NF+-5%63V5RM MKT CAPACITOR	CK 099.2930	WIMA	MKS/2/63/0,1UF/5%	
C33	CK 100NF+-5%63V5RM MKT CAPACITOR	CK 099.2930	WIMA	MKS/2/63/0,1UF/5%	
C40	CC 10NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 099.8521	VITRAMON	VJ1206 Y 103 K FAT	
C50	CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR	CC 007.5237	VITRAMON	VJ1206 Y 104 K FAT	
C51	CE 22UF-10+50% 63V 9X13 ELECTROLYTIC CAPACITOR	CE 006.7120	ROEDERST	EK 00 CB 222 J	
C52	CE 10UF -10+50% 63V 9X13 ELECTROLYTIC CAPACITOR	CE 022.7650	ROEDERST	ELKOEK10/63	
C53	CE 22UF-10+50% 63V 9X13 ELECTROLYTIC CAPACITOR	CE 006.7120	ROEDERST	EK 00 CB 222 J	
C54	CE 22UF-10+50% 63V 9X13 ELECTROLYTIC CAPACITOR	CE 006.7120	ROEDERST	EK 00 CB 222 J	
C55	CE 22UF-10+50% 63V 9X13 ELECTROLYTIC CAPACITOR	CE 006.7120	ROEDERST	EK 00 CB 222 J	
C56	CE 10UF -10+50% 63V 9X13 ELECTROLYTIC CAPACITOR	CE 022.7650	ROEDERST	ELKOEK10/63	
D1	BL MM74HC14N 6XINV.SCHM HEX INV.SCHMITT TRIGGER	BL 099.9492	NSC	MM74HC14N	
D2	BL PC74HC4094P 8ST.SH.REG 8ST.SHIFT A.STORE REGIST.	BL 099.9711	VALVO	PC74HC4094P	
D3	BL PC74HC4053P 3X2CH.MUX ANALOG MULTIPLEXER	BL 807.6247	TEXAS	SN74HC4053N	
D4	BL PC74HC4053P 3X2CH.MUX ANALOG MULTIPLEXER	BL 807.6247	TEXAS	SN74HC4053N	
K1	SN GEPOLT 2XUM 5V RELAIS 5V DC	834.9089	SDS	DS2E-5V	
K2	SN GEPOLT 2XUM 5V RELAIS 5V DC	834.9089	SDS	DS2E-5V	
L30	LD 10 UH 10% 3R3 144 MA CHOKE	LD 026.4184	DELEVAN	DROSSEL1025-44	
L40	LD 47,0UH10%4,500HMO,1,10A CHOKE	LD 067.3060	DELEVAN	DROSSEL1025-60	
L42	LD 47,0UH10%4,500HMO,1,10A CHOKE	LD 067.3060	DELEVAN	DROSSEL1025-60	
L44	LD 47,0UH10%4,500HMO,1,10A CHOKE	LD 067.3060	DELEVAN	DROSSEL1025-60	
L50	LD 10 UH 10% 3R3 144 MA CHOKE	LD 026.4184	DELEVAN	DROSSEL1025-44	
L51	LD 10 UH 10% 3R3 144 MA CHOKE	LD 026.4184	DELEVAN	DROSSEL1025-44	
L52	LD 10 UH 10% 3R3 144 MA CHOKE	LD 026.4184	DELEVAN	DROSSEL1025-44	
L54	LD 10 UH 10% 3R3 144 MA CHOKE	LD 026.4184	DELEVAN	DROSSEL1025-44	
N1	BO TLO62ACP 2XFET OPAMP OPERATIONAL AMPLIFIER	653.2832	TEXAS INST	TLO62ACP	
ROHDE & SCHWARZ		Äl Datum 08 0788	Schaltteilliste für Parts list for ED DC-MESSUNG DC-MEASURE-PART		Blatt Page 1+
			Sachnummer Stock Nr. 844.3102.01 SA		

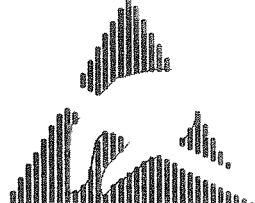
Kennz. Comp.No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
N2	BO LM108J-8 PREC. OPAMP OPERATIONAL AMPLIFIER	354.5261	MOTOROLA	LM108J8	
N3	BO LM108J-8 PREC. OPAMP OPERATIONAL AMPLIFIER	354.5261	MOTOROLA	LM108J8	
N4	BO TLO62ACP 2XFET OPAMP OPERATIONAL AMPLIFIER	653.2832	TEXAS INST	TLO62ACP	
N5	BO CA3130S PMOS OPAMP OPERATIONAL AMPLIFIER	303.9282	RCA	CA3130S	
N6	BJ ICL7660IJA +TO- CONV NEG.VOLTAGE CONVERTER	669.2908	MAXIM	ICL7660IJA	
O1 ..4	VL STECKLOETOESE 7,5X1,1 PLUG-IN SOLDERING LUG	VL 078.2747	-	R&S-ZCHNG.078.2747	
P1 ..4	VL WIRE-WRAP PIN WIRE-WRAP PIN	VL 088.4542	BERG	NR. 75 403-003	
R2	RG 10 KOHM+-1%TK100 1206 CHIP RESISTOR	RG 007.0793	DALE	CRCW1206 10,0KOHM FT	
R3	RL 0,35W4,32MOHM+-1%TK50 METALFILMRESISTOR	RL 099.8244	RESISTA	MK2 4,32MOHM 1% TK50	
R4	RL 0,35W4,32MOHM+-1%TK50 METALFILMRESISTOR	RL 099.8244	RESISTA	MK2 4,32MOHM 1% TK50	
R5	RL 0,35W4,75MOHM+-1%TK50 METALFILMRESISTOR	RL 099.8250	RESISTA	MK2 4,75MOHM 1% TK50	
R6	RL 0,35W4,75MOHM+-1%TK50 METALFILMRESISTOR	RL 099.8250	RESISTA	MK2 4,75MOHM 1% TK50	
R7	RL 0,35W 1MOHM+-1%TK50 RESISTOR	RL 082.7862	DRALORIC	SMAO207/1M-F-D	
R8	RL 0,35W 1MOHM+-1%TK50 RESISTOR	RL 082.7862	DRALORIC	SMAO207/1M-F-D	
R9	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5743	DALE	CRCW1206 2,21KOHM FT	
R10 ..15	RG 10 KOHM+-1%TK100 1206 CHIP RESISTOR	RG 007.0793	DALE	CRCW1206 10,0KOHM FT	
R20	RG 10 KOHM+-1%TK100 1206 CHIP RESISTOR	RG 007.0793	DALE	CRCW1206 10,0KOHM FT	
R25	RL 0,35W 6,04KOHM+-1%TK50 RESISTOR	RL 082.6089	DRALORIC	SMA 0207/6,04OHM-F-C	
R26	RG 2,0 KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5737	DALE	CRCW1206 2,0KOHM F T	
R27	RL 0,35W9,53KOHM+-0,1%T25 RESISTOR	RL 084.3029	DRALORIC	SMAO207	
R28	RL 0,35W1,05KOHM+-0,1%T25 RESISTOR	RL 083.9181	DRALORIC	SMAO207	
R30	RL 0,35W9,53KOHM+-0,1%T25 RESISTOR	RL 084.3029	DRALORIC	SMAO207	
R31	RL 0,35W1,05KOHM+-0,1%T25 RESISTOR	RL 083.9181	DRALORIC	SMAO207	
R32	RG 3,32KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5789	DALE	CRCW1206 3,32KOHM FT	
R33	RG 6,81KOHM+-1%TK100 1206 CHIP RESISTOR	RG 007.0758	DALE	CRCW1206 6,81KOHM FT	
R34	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5743	DALE	CRCW1206 2,21KOHM FT	
R35	RG 2,21KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5743	DALE	CRCW1206 2,21KOHM FT	
R40	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5820	DALE	CRCW1206 4,75KOHM FT	
R41	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5820	DALE	CRCW1206 4,75KOHM FT	
R42	RG 4,75KOHM+-1%TK100 1206 RESISTOR CHIP	RG 007.5820	DALE	CRCW1206 4,75KOHM FT	
R45 ..47	RL 0,21W 4,75KOHM+-1%TK50 RESISTOR	RL 092.1521	RESISTA	MK1 4K75 1% TK50	
V1	AD BAS16 75V OA25 UDI DIODE	AD 007.4924	VALVO	BAS16	
V2	AK BCX70H N 45V 200MA TRANSISTOR	AK 007.3105	VALVO	BCX70H	
V20	AK BCX70H N 45V 200MA TRANSISTOR	AK 007.3105	VALVO	BCX70H	
V21	AD BAS16 75V OA25 UDI DIODE	AD 007.4924	VALVO	BAS16	
X5	DX KABEL CONNECTOR UNIT	844.3154			

ROHDE & SCHWARZ	Äl	Datum Date	Schaltteilliste für Parts list for	Sachnummer Stock Nr.	Blatt Page
	08	0788	ED DC-MESSUNG DC-MEASURE-PART	844.3102.01 SA	2+

Kennz. Comp.No.	Benennung Designation	Sachnummer Stock No.	Hersteller Manufacturer	Bezeichnung Designation	enthalten in contained in
X6	DX KABEL CONNECTOR UNIT	844.3154			
X3A	FP INDIREKT.STECKERL.36P. 3-POLIG PIN CONNECTOR	FP 242.3600	BINDER	742-5-11-0178-00-36	
X3B	FP INDIREKT.STECKERL.36P. 3-POLIG PIN CONNECTOR	FP 242.3600	BINDER	742-5-11-0178-00-36	
X4A	FP INDIREKT.STECKERL.36P. 2-POLIG PIN CONNECTOR	FP 242.3600	BINDER	742-5-11-0178-00-36	
X4B	FP INDIREKT.STECKERL.36P. 2-POLIG PIN CONNECTOR	FP 242.3600	BINDER	742-5-11-0178-00-36	- ENDE -







ACHTUNG: EGB!
ELEKTROSTATISCH GEFÄHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.

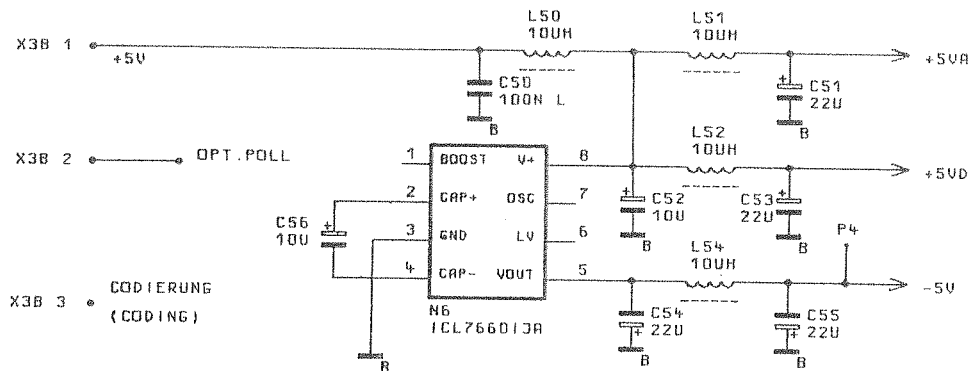
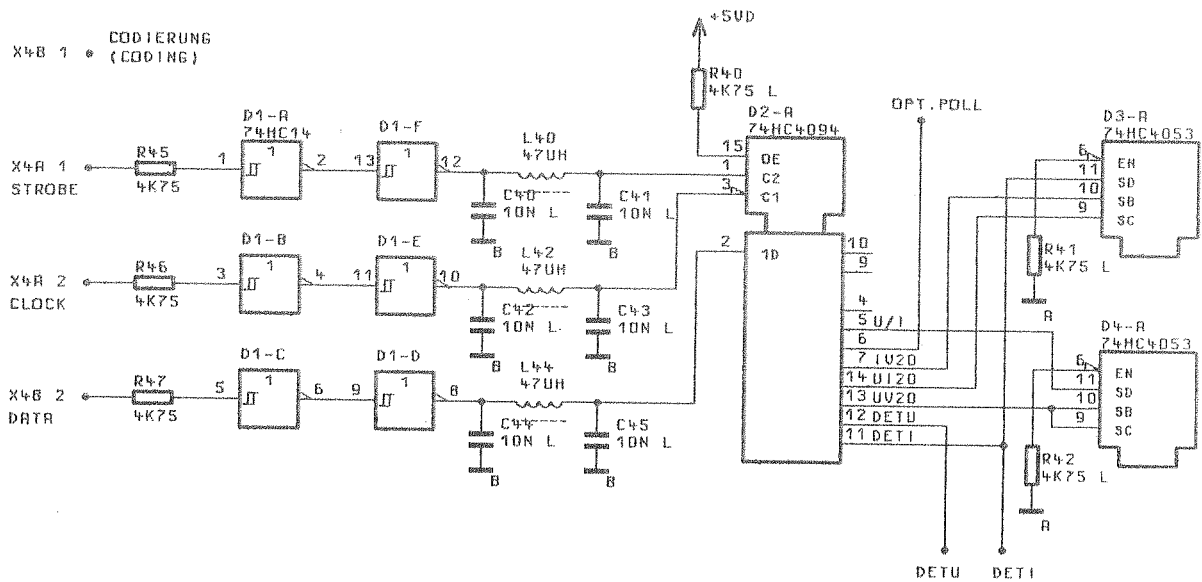
ATTENTION: ESD!
ELECTROSTATIC SENSITIVE
DEVICES REQUIRE A SPECIAL
HANDLING.

S1
CI

X3A 3


X3A 2

CODIERUNG
X4B 1 * (CODING)



STROMLAUF GILT FUER VAR.02

CIRCUIT DIAGRAM IS VALID FOR MOD.02

A	39000	6.88	GL	1KGA	TAG	NAME	BENENNUNG
B	39000	6.88	CO	BEARB.		GL	DC-MESSUNG DC-MEASURE-PART
				GEPR.		GL	
				NORM			
				PLOTT	8. 7.88	*	
 ROHDE & SCHWARZ							ZEICHN.-NR.
							844.3102.015
REND. IND.	RENDERUNGS- MITTEILUNG	DATUM	NAME	ZU GERÄT	CMT26	REG. I.V.	844.3002
							ERSTE Z.
							BLATT-NR. 1
							V. 1 GL.

9

10

11

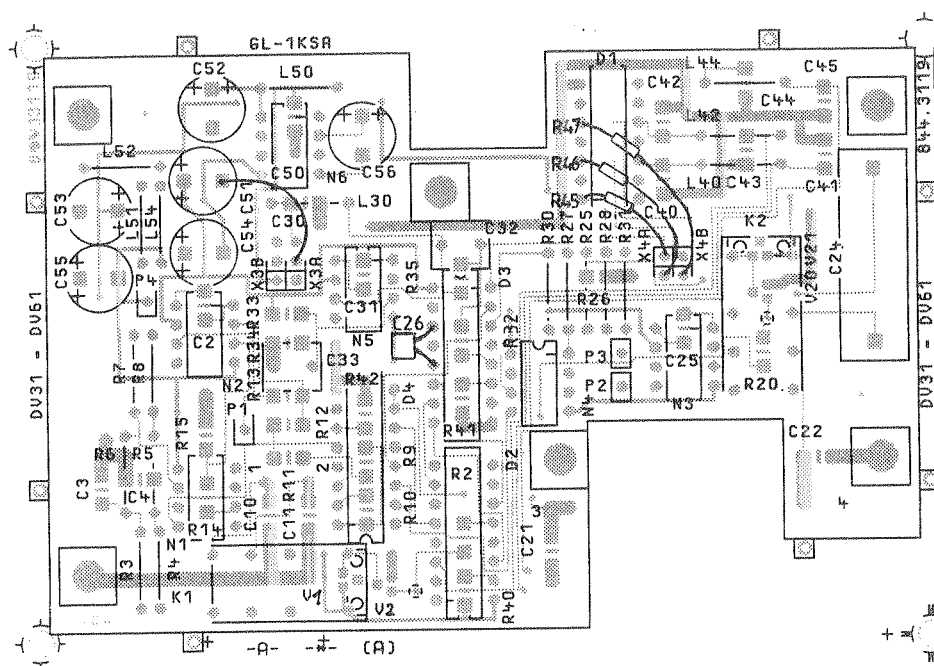
12




ACHTUNG: EGB !
Elektrostatisch gefährdete Bauelemente erfordern eine besondere Handhabung.

ATTENTION ESD !
Electrostatic sensitive devices require a special handling.

Ansicht und Leitungsführung Lotseite View of tracks on solder side



VARIANTENERKLÄRUNG / VERSION VAR 02 - GRUNDAUSFÜHRUNG / BASIC MODEL

A 39000 11.88 GL		Maße ohne Toleranzangabe		Maßstab 1 : 1			
				Hilfszeug, Werkstoff			
		1KGA Tag Name		Benennung			
		Bearb. 02.88 GL		DC - MESSUNG DC - MEASURE - PART		Z	
		Gepr.					
		Norm.					
				Zeichn.-Nr.			Blatt-Nr.
		 ROHDE & SCHWARZ		844.3102.01 ED			2
							4
Ang. Unters. Name		Gerät CMTZ 6		844.3002 V			