

329-1285

[查询"14000"供应商](#)

# TESTEC®

ELEKTRONIK GMBH

Bornheimer Landstr. 32 - 34  
D - 60316 Frankfurt am Main  
Telefon: 069 / 94 333 5 - 0  
Telefax : 069 / 94 333 5 - 55  
Internet : <http://www.testec.de>

**SHORTFORM PRODUCT DESCRIPTION**

probes and accessories

for oscilloscopes and multimeters

Order-number	Type	Attenuation	Input Impedance		Bandwidth (MHz)	Risetime (ns)	Cablelength (m)	Compensation-range (pF)	max. Input Voltage CAT I
			R (MOhm)	C (pF)					
<b>low frequency probes up to 150 MHz</b>									
10000	TT-LF 112	x1	=oscilloscope	45	25	14	1,2	-	400 Vp
10001	TT-LF 116	x1	=oscilloscope	56	22	16	1,6	-	400 Vp
10002	TT-LF 120	x1	=oscilloscope	67	20	18	2,0	-	400 Vp
10010	TT-LF 212	x10	10	14	150	2,3	1,2	10..60	600 Vp
10011	TT-LF 216	x10	10	15,5	130	2,7	1,6	10..60	600 Vp
10012	TT-LF 220	x10	10	16	100	3,5	2,0	10..60	600 Vp
10020	TT-LF 312	x1	=oscilloscope	47	15	24	1,2	-	400 Vp
		x10	10	15,5	150	2,3	10..60	600 Vp	
10021	TT-LF 316	x1	=oscilloscope	58	12	30	1,6	-	400 Vp
		x10	10	16	130	2,7	10..60	600 Vp	
10022	TT-LF 320	x1	=oscilloscope	69	10	40	2,0	-	400 Vp
		x10	10	16,5	100	3,5	10..60	600 Vp	
<b>middle frequency probes up to 250 MHz</b>									
11000	TT-MF 112	x1	=oscilloscope	45	30	12	1,2	-	400 Vp
11001	TT-MF 116	x1	=oscilloscope	56	27	13	1,6	-	400 Vp
11002	TT-MF 120	x1	=oscilloscope	67	25	14	2,0	-	400 Vp
11010	TT-MF 212	x10	10	13,5	250	1,4	1,2	10..60	600 Vp
11011	TT-MF 216	x10	10	15	220	1,6	1,6	10..60	600 Vp
11012	TT-MF 220	x10	10	15,5	190	1,8	2,0	10..60	600 Vp
11020	TT-MF 312	x1	=oscilloscope	47	20	18	1,2	-	400 Vp
		x10	10	15	250	1,4	10..60	600 Vp	
11021	TT-MF 316	x1	=oscilloscope	58	13	27	1,6	-	400 Vp
		x10	10	15,5	220	1,6	10..60	600 Vp	
11022	TT-MF 320	x1	=oscilloscope	69	10	35	2,0	-	400 Vp
		x10	10	16	190	1,8	10..60	600 Vp	
<b>high frequency probes up to 350 MHz</b>									
12000	TT-HF 112	x1	=oscilloscope	45	40	9	1,2	-	400 Vp
12002	TT-HF 120	x1	=oscilloscope	67	30	12	2,0	-	400 Vp
12010	TT-HF 212	x10	10	13,5	300	1,2	1,2	10..50	600 Vp
12012	TT-HF 220	x10	10	15,5	230	1,5	2,0	10..50	600 Vp
12020	TT-HF 312	x1	=oscilloscope	47	30	12	1,2	-	400 Vp
		x10	10	15	300	1,2	10..50	600 Vp	
12022	TT-HF 320	x1	=oscilloscope	69	15	23	2,0	-	400 Vp
		x10	10	16	230	1,5	10..50	600 Vp	
12030	TT-HF 412	x10	10	13,5	350	1	1,2	10..50	600 Vp
12032	TT-HF 420	x10	10	15,5	270	1,3	2,0	10..50	600 Vp

Order-number	Type	Attenuation	Input Impedance		Bandwidth (MHz)	Risetime (ns)	Cablelength (m)	Compensation-range (pF)	max. Input Voltage CAT I
			R (MOhm)	C (pF)					
<b>high frequency miniature probes</b>									
12040	TT-HF 512	x10	10	9	500	<0,7	1,2	10..30	200 Vp
12042	TT-HF 520	x10	10	11	350	1	2,0	10..30	200 Vp
<b>high voltage probes up to 300 MHz</b>									
13000	TT-HV 150	x100	100	4	300	1,2	1,2	10..50	1500 Vp
13001	TT-HV151	x100	100	6	200	1,8	2,0	10..50	1500 Vp
13010	TT-HV 250	x100	100	4	300	1,2	1,2	10..50	2500 Vp
13011	TT-HV 251	x100	100	6	200	1,8	2,0	10..50	2500 Vp
15000	TT-HVP 15HF	x1000	100	3	50	7	2,0	10..35	15kVDC+30kVp
<b>active FET probe</b>									
12050	TT-AF 2000	x10	1	2	750	<0,5	1,5	-	40 Vp
<b>SafetyProbe Protection 1000 V, CAT II</b>									
14000	TT-SP 101	x1	= oscilloscope	70	25	15	1,5	-	500 V
14010	TT-SP 202G	x10	10	15	250	1,4	1,5	10..30	1000 V
14011	TT-SP 202R	x10	10	15	250	1,4	1,5	10..30	1000 V

Order-number	Type	Cablelength (m)	Bandwidth (MHz)	Input Capacity (pF)	Diode turn on voltage (mV)	maximum input voltage	
						UAC (V)	UDC (V)
<b>detector probe for oscilloscope</b>							
13100	TT-DE 112	1,2	0,1-950 MHz +-3dB	approx. 5	250	50	250
<b>RF-detector probe for DMM</b>							
13110	TT-DE 112BA	1,2	0,1-750 MHz +-3dB	approx. 5	250	50	250

Order-number	Type	Attenuation	Input Impedance		Bandwidth (MHz)	Risetime (ns)	absolute max. Voltage	max differentielle DC+peakAC	max. common mode DC+peakAC
			R (MOhm)	C (pF)					
<b>active differentielle probes CAT II</b>									
15101	TT-SI 9001	x10	4	10	25	14	1000 Vrms	70 V	700 V
		x100	4	10	25	14	1000 Vrms	700 V	700 V
15102	TT-SI 9002	x20	4	10	25	14	1000 Vrms	140 V	1400 v
		x200	4	10	25	14	1000 Vrms	1400 V	1400 V
15105	TT-SI 9005	x50	10	5	25	14	2500 Vrms	350 V	3500 V
		x500	10	5	25	14	2500 Vrms	3500 V	3500 V
15115	TT-SI 9105	x50	4	7	100	3,5	600 Vrms	70 V	600 Vrms
		x500	4	7	100	3,5	600 Vrms	700 V	600 Vrms
15120	TT-SI 9110	x100	4	7	100	3,5	1000 Vrms	140 V	1000 Vrms
		x1000	4	7	100	3,5	1000 Vrms	1400 v	1000 Vrms

Order-number	Type	Attenuation	Input Impedance		Bandwidth (MHz)	Risetime (ns)	Cablelength (m)	max. Input Voltage
			R (Mohm)	C (pF)				
<b>high voltage probes for oscilloscopes</b>								
15001	TT-HVP 40	x1000	1000	1	0,3	-	1,0	40 kV DC
15004	TT-HVP 20AC	x1000	500	1	5	70	1,0	20kV AC+ 30kV DC

**Order-no. Description**

**standard accessories for probes**

20010	ground lead 22cm
20020	sprung hook retractable
20030	probe tip
20040	test tip
20050	test tip IC
20060	probe tip to BNC-adapter
20061	probe tip to BNC-adapter for x100 - 2,5kV
20070	adjustment screwdriver
20071	adjustment screwdriver for x100 - 1,5kV
20100	standard accessory pack - 7 pieces
20101	standard accessory pack - 7 pieces for x100 - 1,5kV
20102	standard accessory pack - 7 pieces for x100 - 2,5kV

**Order-no. Description**

**accessories for safety probes, 1000V, CAT II**

14100	ground lead
14110	sprung hook with ground lead
14120	sprung hook with ground lead
14130	isolated grabber
14140	4mm safety adapter
14150	BNC safety adapter
14160	probe tip 2mm
14170	probe tip 4mm
14180	safetygrabber 50mm
14190	safetygrabber 100mm
14200	safetygrabber 200mm

**Order-no. Description**

**optional accessories for probes**

21010	4mm probe adapter
21011	1,3mm probe adapter
21012	4mm probe adapter flexible
21013	1,3mm probe adapter flexible
21020	sprung hook screwable
21040	minigrabber to probe tip
21060	probe tip to BNC-adapter special
21070	short ground connection

**Order-no. Description**

**T&M accessories**

22000	Kelvin probe lead with 5pol. DIN-plug
22020	Kelvin probe lead with 4mm plugs
22100	SMD-test tweezer with 4mm plugs
22110	SMD-test tweezer with BNC connector

**ALL PROBES ARE CE CERTIFIED ACCORDING IEC1010-2-031**

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# TESTEC ACTIVE DIFFERENTIAL PROBES

查询"4000"供应

Model	TT-SI 9001	TT-SI 9002	TT-SI 9005	TT-SI 9105	TT-SI 9110
Order-No.	15101	15102	15105	15115	15120
Bandwidth	DC to 25 MHz (-3dB)	DC to 25 MHz (-3dB)	DC to 25 MHz (-3dB)	DC to 100 MHz (-3dB)	DC to 100 MHz (-3dB)
Input Impedance	4 MOhm / 10 pF	4 MOhm / 10 pF	10 MOhm / 10 pF	4 MOhm / 7 pF	4 MOhm / 7 pF
Accuracy	+/- 2%	+/- 2%	+/- 2%	+/- 2%	+/- 2%
Attenuation Ratio	1/10 & 1/100	1/20 & 1/200	1/50 & 1/500	1/50 & 1/500	1/100 & 1/1000
<u>Input Voltage</u>					
-Max. Differential	+/-70V (DC+peak AC) 1/10	+/-140V (DC+peak AC) 1/20	+/-350V (DC+peak AC) 1/50	+/-70V (DC+peak AC) 1/50	+/-140V (DC+peak AC) 1/100
-Max. Common Mode	+/-700V (DC+peak AC)	+/-1400V (DC+peak AC)	+/-3500V (DC+peak AC)	+/-700V (DC+peak AC)	+/-1400V (DC+peak AC)
-Absolute Maximum	1000 Vrms	1000 Vrms	2500 Vrms	1000 Vrms	1000 Vrms
<u>Output Voltage</u>					
-Max. Amplitude	+/- 7 V	+/- 7 V	+/- 7 V	+/- 1,4 V	+/- 1,4 V
-Offset (typical)	<+/- 5mV, -10°C to 40°C	<+/- 5mV, -10°C to 40°C	<+/- 5mV, -10°C to 40°C	<+/- 5mV, -10°C to 40°C	<+/- 5mV, -10°C to 40°C
-Noise (typical)	0,6mVrms	0,6mVrms	0,6mVrms	0,6mVrms	0,6mVrms
CMRR	50Hz/-86dB 20kHz/-66dB 200kHz/-56dB	50Hz/-80dB 20kHz/-60dB 200kHz/-50dB	50Hz/-80dB 20kHz/-60dB 200kHz/-50dB	60Hz/-86dB 1 MHz/-56dB	60Hz/-80dB 1 MHz/-50dB
Power Requirements	4 x AA cells 6 VDC/60mA main adaptor	4 x AA cells 6 VDC/60mA main adaptor	4 x AA cells 6 VDC/60mA main adaptor	4 x AA cells 6 VDC/60mA main adaptor	4 x AA cells 6 VDC/60mA main adaptor
Compliance	IEC 1010 CAT III	IEC 1010 CAT III	IEC 1010 CAT III	IEC 1010 CAT III	IEC 1010 CAT III

## Certificate of Conformity

in compliance with the EC Directive for the harmonization of the legal regulations of the member states concerning the use of electrical equipment within specific voltage limits (73/23/EEC) - amended by Directive 93/68/EEC

Product : Modular Oscilloscope Probes  
Tested on request of : Testec Elektronik GmbH, Zeil 4, D-65719 Hofheim  
Trade mark : Testec  
Model/Type Ref. : TT-HV-150 and TT-HV-250  
Full identification of the product : TT-HV-150:- Max. Voltage 1500 V<sub>peak</sub> or 1200 V AC or DC  
- Overvoltage Category II with maximal 2500 V transient Overvoltage  
TT-HV-250:- Max. Voltage 2500 V<sub>peak</sub> or 2000 V AC or DC  
- Overvoltage Category II with maximal 3170 V transient Overvoltage  
Additional information (if any) : on page 2


A sample of product has been tested and found to be in conformity with DIN EN 61010-1: 1994-03 , DIN EN 61010-1/A2: 1996-05 and DIN EN 61010-2-031: 1995-04 as shown in the test report (reference no. 4172007).

This certificate has been established by a body notified to the Member States and Commission of the European Communities according to the provisions of the Low Voltage Directive of February 19<sup>th</sup> 1973.

This certificate of conformity is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard. It does not imply an assessment of the whole production and does not permit the use of a mark of conformity.

Nürnberg, 11.03.1997

LGA-Bereich PRODUKTE  
Prüfstelle für Gerätesicherheit He

  
Dr.-Ing. W. Schubert

Ab heute und nur als Teste-WFAE  
ausgeliefert 1.7.3.2000; 16:10

**TESTEC**<sup>®</sup>  
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Farnell  
Herr Silbiger  
Sales Marketing & Administration Center  
Canal Road, Leeds  
LS 12 2TU

United Kingdom

\* Lieferung zu den Konditionen, für die nach Deutschland geliefert wurde  
\* "KAMPFPREISE" - auch in Katalog selber sieht die Preise widerspiegeln

\* Absolute Spezialpreise  
\* Standard-TEILE mit Standard-Kalkulation in England handeln.

08.03.2000

**Angebot Testec - Serie in DM**  
(Bedruckung und Bedienungsanleitungen Testec)

Farnell- ORDER CODE F.E.C. Teile-Nr.	Testec Type Testec-Bezeichnung	Testec Part-No. Testec No.	DM/STÜCK
354569	TT-LF 112	10000	<del>13,33</del>
354570	TT-LF 212	10010	<del>21,09</del>
220619	TT-LF 312	10020	<del>23,74</del>
-----	TT-MF 112	11000	<del>20,00</del>
-----	TT-MF 212	11010	<del>28,15</del>
220553	TT-MF 312	11020	<del>34,17</del>
-----	TT-HF 112	12000	<del>19,20</del>
-----	TT-HF 212	12010	<del>19,10</del>
220607	TT-HF 312	12020	<del>32,95</del>
-----	TT-HF 412	12030	<del>64,10</del>
354594	TT-HF 512	12040	<del>12,00</del>
220541	TT-HV 150	13000	<del>37,16</del>
354612	TT-HV 250	13010	<del>16,69</del>
4019027	TT-HVP 15HF	15000	<del>190,00</del>
3291285	TT-HVP 40	15001	<del>91,00</del>
354727	Adapter 4mm Flex	21012	<del>6,55</del>
354739	Ersatztastspitzen 2 Stück	20032	<del>1,87</del>
354820	Zubehörset 7teil.	20100	<del>9,98</del>

Deutsche Bank Frankfurt  
Kto.-Nr.: 7 39 99 22  
BLZ : 500 700 10

Frankfurter Sparkasse  
Kto.-Nr.: 89 10 59  
BLZ : 500 802 01

Postbank Frankfurt a.M.  
Kto.-Nr.: 2125 22 608  
BLZ : 500 100 60

Geschäftsführer:  
Marcus Wagener  
Robert Mann

Gerichtsstand:  
Frankfurt a.M.  
HRB 33 805

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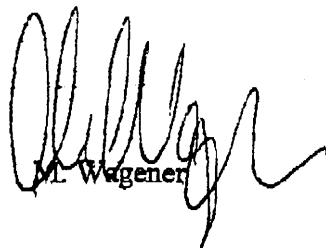
**TESTEC**<sup>®</sup>

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F.E.C. Teile-Nr.	Testec-Bezeichnung	Testec No.	<del>Einzelstück</del>
354971	Differentialtastkopf TT-SI 9001	15101	<del>88,00</del>
354983	Differentialtastkopf TT-SI 9002	15102	<del>88,00</del>

Mit freundlichen Grüßen

  
M. Wagener

Deutsche Bank Frankfurt  
Kto.-Nr.: 7 33 99 22  
BLZ : 500 700 10

Frankfurter Sparkasse  
Kto.-Nr.: 69 19 59  
BLZ : 500 502 01

Postbank Frankfurt a.M.  
Kto.-Nr.: 2125 22 606  
BLZ : 500 100 60

Geschäftsführer:  
Marcus Wagener  
Robert Mann

Gerichtstand:  
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