

Insulation Resistance Tester

High cost performance, compact size with full features of Insulation Resistance Tester



TOS7200



Testing voltage range -25 to -1,000V, Resistance measurement range $0.01M\Omega$ to $5,000M\Omega$

The TOS7200 is an insulation resistance tester available for a wide range of various electric and electronic components, as well as electric and electronic equipment. Output voltage can be optionally set in the range of 25 to 1000 V (negative polarity) with a resolution of 1 V. As it is fitted with a window comparator and timer function, the tester is capable of efficiently conducting insulation resistance tests based on various safety standards. In addition, this product is equipped with panel memory as standard feature, which can be recalled by remote control, SIGNAL I/O connector, and the RS-232C interface for easy automatic testing system construction.

- Provided with the discharge function
- Equipped with the window comparator
- Hold function (which holds the measured resistance at the end of testing while PASS judgment is being output)
- Provided with the timer function
- Rear output terminals
- Measured-value monitoring terminals
- Equipped with the panel memory (enabling 10 different settings to be stored)
- Equipped with the SIGNAL I/O connector and remote control terminal
- Equipped with the RS-232C interface as standard



8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012 Email: sales@calright.com http://www.calright.com

The Right Source For Your Test & Measurement Needs

TOS7200

Insulation Resistance Tester

Hipot test mode

50 ms or less (10 % to 90 %) [no load] Forced discharge at the end of test (discharge resistance: 25 k Ω)				
0 V to -1200 V				
1 V				
tion resistance				
value				
re]				
.~1				
<u>``</u>				
s).				
SIGNAL I/O				
Outputs an				
U FAIL signal				
Outputs a				
Outputs a L FAIL signal				
L FAIL signal				
L FAIL signal				
L FAIL signal Dutputs a PASS signal				
L FAIL signal				
L FAIL signal Dutputs a PASS signal				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Dutputs a PASS signal				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Outputs a PASS signal ntinuously				
L FAIL signal Outputs a PASS signal ntinuously				
C FAIL signal Dutputs a PASS signal ntinuously common. t current =				
C FAIL signal Dutputs a PASS signal ntinuously common.				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = te				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = te				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = te				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = te				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = ge LOWER)				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = ge LOWER)				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = ge LOWER)				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = ge LOWER)				
C FAIL signal Dutputs a PASS signal ntinuously common. t current = ge LOWER)				
r				



8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012 Email: sales@calright.com http://www.calright.com

The Right Source For Your Test & Measurement Needs

TOS7200

Insulation Resistance Tester

Interface and Other Functions

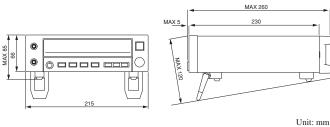
REMOTE			6-pin mini-DIN connector on the front panel The optional remote controller RC01-TOS or RC02-TOS is connected to remotely control starting/stopping of a test (note that a DIN-mini DIN adapter is required).				
SIG	NAL I/O		· ·		on the rear panel ns of connector signals.		
No.S	Signal name	e I/O D	escription of signal				
1	PM0	IL	SB *1		Pin Configuration for the		
2	PM1	*			SIGNAL I/O Connector]		
3	PM2	*			SIGNAL I/O CONNECTOR		
4 5	PM3 N.C	IN	ISB *1		121110987654321		
6	N.C						
7	N.C		25 24 23 22 21 20 19 18 17 16 15 14 /				
8	N.C						
9	STB	l Ir	put terminal for the strobe signal of the panel memory				
10	N.C						
11 12	N.C N.C						
13	COM	C	ircuit common (cha	rcuit common (chassis potential)			
14	HV ON		N during a test or while a voltage remains between the output				
			erminals				
15	TEST		N during a test				
16	PASS				hen PASS judgment is made, or		
17			ontinuously ON whi				
17	17 U FAIL O Continuously ON if an insulation resistance equal to or e the upper resistance is detected, resulting in FAIL judgn						
18	L FAIL				on resistance equal to or falling		
		b	elow the lower resis		detected, resulting in FAIL judg-ment		
19	READY	0 0	N during standby				
20	N.C			OTADT	· · · ·		
21 22	START STOP		nput terminal for the nput terminal for the				
22	ENABLE		Remote control enab				
24	N.C						
25	COM		ircuit common (cha	issis pote	ntial)		
	digit BCD a						
			ction signal input ter				
Me	emory recal	I by latcl	hing this selection s	lignal at t	ne rise of the strobe signal		
Inp	ut specifica	tions					
	ligh-level inpu		11 V to 15 V		All input signals are active Low controlled.		
					The input terminal is pulled up to +12 V		
	Low-level input voltage				using a resistor.		
Low-level input current				n	Opening the input terminal is equivalent to		
	nput time v		5 ms minimum		inputting a high-level signal.		
Out	put specific	cations					
C	Output meth	hod	Open collector output (4.5 V to 30 V DC)				
Output withstand voltage Output saturation voltage			30 V DC				
			Approx. 1.1 V (at 25°C)				
Maximum output current			400 mA (TOTAL)				
ANALOG OUT							
AN	ALUG UU	1	Outputs a logarithmically compressed voltage corresponding				
			to the measured resistance value				
+			$Vo = \log (1 + Rx / 1M\Omega)$				
			where Rx = mea	sured res	sistance value (1 M Ω : 0.30 V;		
			10 M Ω: 1.04 V; 100 M Ω: 2.00 V; 1000 M Ω: 3.00 V;				
			10000 M Ω or more: 4.00 V). Output impedance: 1 k Ω				
COM Accuracy			Analog output-circuit common				
				±(2 % of full scale)			
					a roor nonal (compliant with ETA 222 D)		
к3-	232C		-		e rear panel (compliant with EIA-232-D)		
					he POWER switch and KEY-LOCK		
_			function are rem	2			
E	Baud rate		9600 bps/19200	bps/384	00 bps		
			(data: 8 bits; par	rity: non	e; stop bit: 2 bits fixed)		
Dis	play				voltage display, 4-digit insulation		
- 10					0 1 1 0		
Memory function			resistance display, and 3-digit time display A maximum of 10 types of test conditions can be stored				
			in memory.				
	kup battery	y life	3 years or more	(at 25 °C	()		
TES	ST MODE						
Ν	IOMENT /	ARY	A test is conduct	ted only	when the START switch is pressed.		
	AIL MOD		Disables cancellation of FAIL judgment using a stop signal				
			via remote contr	ol.			
Г	OUBLE A	CTION			e STOP switch is pressed and the		
1					l within approximately a half-second.		
-		D					
P	ASS HOL	D		or noldi	ng PASS judgment to be set to		
			0.2 s or HOLD.				
KE	YLOCK		Places the tester	in a state	e in which no keystroke other		
			than the START	<u>/STOP</u> s	witch is accepted.		

General Specifications

Installation location Indoors and at altitudes up to 2000 m Warranty range Temperature 5 °C to 35 °C Humidity 20 %rh to 80 %rh (no condensation) Operating range Temperature 0 °C to 40 °C Humidity 20 %rh to 80 %rh (no condensation) Storage range Temperature - 20 °C to 70 °C Humidity 90 %rh or less (no condensation) Power requirements Nominal voltage range Nominal voltage range 100 V to 240 V AC (allowable voltage range) (85 V to 250 V AC) Power consumption 30 VA maximum At rated load 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61000-3-2 EN61000-3-2 EN61000-3-2 EN61000-3-2 EN61000-0 Sude the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard.	Parimum						
Warranty range Temperature 5 °C to 35 °C Humidity 20 %rh to 80 %rh (no condensation) Operating range Temperature 0 °C to 40 °C Humidity 20 %rh to 80 %rh (no condensation) Storage range Temperature 0 °C to 70 °C Humidity 90 %rh or less (no condensation) Power requirements Nominal voltage range Nominal voltage range 100 V to 240 V AC (allowable voltage range) (85 V to 250 V AC) Power consumption 30 VA maximum At rated load Allowable frequency range Allowable frequency range 47 Hz to 63 Hz Insulation resistance 30 M Q or more (500 V DC) [AC LINE to chassis] Ground bond 25 A AC/0.1 Q or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1.2 <td< th=""><th></th><th colspan="6">Environment</th></td<>		Environment					
Hunidity 20 %rh to 80 %rh (no condensation) Operating range Temperature 0 °C to 40 °C Humidity 20 %rh to 80 %rh (no condensation) Storage range Temperature -20 °C to 70 °C Humidity 90 %rh or less (no condensation) Power requirements Nominal voltage range Nominal voltage range 100 V to 240 V AC (allowable voltage range) (85 V to 250 V AC) Power consumption 30 VA maximum At rated load Allowable frequency range Allowable frequency range 47 Hz to 63 Hz Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61000-3-2 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 1. Used Hz the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1.2 Conforms to the requirements of th							
Operating rangeTemperature 0 °C to 40 °C HumidityStorage rangeTemperature -20 °C to 70 °C HumidityPower requirementsNominal voltage range100 V to 240 V AC (allowable voltage range)(allowable voltage range)00 V to 250 V AC)Power consumption30 VA maximum At rated loadAt rated load100 V to 240 V AC (allowable frequency range)Insulation resistance30 M Ω or more (500 V DC) [AC LINE to chassis]Hipot1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis]Ground bond25 A AC/0.1 Ω or lessElectromagnetic compatibility (EMC)*1Conforms to the requirements of the following directive and standard.ENC Directive 89/336/EECEN61000-3-2EN61000-3-2EN61000-3-3Under following conditions1. Used HV test leadwires TL08-TOS which is supplied.2. No discharge occurs at outside of the tester.3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used.Safety*1, 2Conforms to the requirements of the following directive and standard.Low Voltage Directive 73/23/EECEN61010-1Class I Pollution degree 2Dimensions (max.)215 (215) W x 66 (85) H x 230 (260) DmmWeightApprox. 2 kgAccessoriesAC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy*1: Only on models that have CE marking on the panel. Not applicable to custom order models.	warranty range						
Humidity 20 %rh to 80 %rh (no condensation)Storage rangeTemperature -20 °C to 70 °CHumidity90 %rh or less (no condensation)Power requirementsNominal voltage range100 V to 240 V AC(allowable voltage range)(85 V to 250 V AC)Power consumption30 VA maximumAt rated load47 Hz to 63 HzInsulation resistance30 M Ω or more (500 V DC) [AC LINE to chassis]Hipot1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis]Ground bond25 A AC/0.1 Ω or lessElectromagnetic compatibility (EMC)*1Conforms to the requirements of the following directive and standard.EMC Directive 89/336/EECEN61000-3-2EN61000-3-3Under following conditions1. Used HV test leadwires TL08-TOS which is supplied.2. No discharge occurs at outside of the tester.3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used.Safety*1.2Conforms to the requirements of the following directive and standard.Low Voltage Directive 73/23/EECEN61010-1Class I Pollution degree 2Dimensions (max.)215 (215) W x 66 (85) H x 230 (260) DmmWeightApprox. 2 kgAccessoriesAC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy*1: Only on models that have CE marking on the panel. Not applicable to custom order models.							
Storage rangeTemperature -20 °C to 70 °C HumidityPower requirementsNominal voltage range100 V to 240 V AC (allowable voltage range)(allowable voltage range)100 V to 250 V AC)Power consumption30 VA maximumAt rated loadAt rated loadAllowable frequency range47 Hz to 63 HzInsulation resistance30 M Ω or more (500 V DC) [AC LINE to chassis]Hipot1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis]Ground bond25 A AC/0.1 Ω or lessElectromagnetic compatibility (EMC)*1Conforms to the requirements of the following directive and standard.EMC Directive 89/336/EECEN61020-3-2EN61000-3-2EN61000-3-3Under following conditions1. Used HV test leadwires TL08-TOS which is supplied.2. No discharge occurs at outside of the tester.3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used.Safety*1, 2Conforms to the requirements of the following directive and standard.Low Voltage Directive 73/23/EECEN61010-1Class I Pollution degree 2Dimensions (max.)215 (215) W x 66 (85) H x 230 (260) DmmWeightApprox. 2 kgAccessoriesAC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy*1: Only on models that have CE marking on the panel. Not applicable to custom order models.	Operating range						
Humidity 90 %rh or less (no condensation) Power requirements Nominal voltage range 100 V to 240 V AC (allowable voltage range) (85 V to 250 V AC) Power consumption 30 VA maximum At rated load At maximum At rate load At maximum At rate load At rate load Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requireme							
Power requirements Image: Construct of the second se	Storage range						
Nominal voltage range 100 V to 240 V AC (allowable voltage range) (85 V to 250 V AC) Power consumption 30 VA maximum At rated load		Humidity 90 %rh or less (no condensation)					
(allowable voltage range) (85 V to 250 V AC) Power consumption 30 VA maximum At rated load Insulation resistance Allowable frequency range 47 Hz to 63 Hz Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-	Power requirements						
Power consumption 30 VA maximum At rated load At rated load Allowable frequency range 47 Hz to 63 Hz Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set	Nominal voltage range	100 V to 240 V AC					
At rated load Allowable frequency range 47 Hz to 63 Hz Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. </td <td>(allowable voltage range)</td> <td colspan="3">allowable voltage range) (85 V to 250 V AC)</td>	(allowable voltage range)	allowable voltage range) (85 V to 250 V AC)					
Allowable frequency range 47 Hz to 63 Hz Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models.	Power consumption	30 VA maximum					
Insulation resistance 30 M Ω or more (500 V DC) [AC LINE to chassis] Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61026- EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models.	At rated load						
Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models.	Allowable frequency range	ange 47 Hz to 63 Hz					
Hipot 1390 V AC for 2 seconds, 10 mA or less [AC LINE to chassis] Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61026 EN6100-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models.	Insulation resistance	$30 \text{ M} \Omega$ or more (500 V DC) [AC LINE to chassis]					
Ground bond 25 A AC/0.1 Ω or less Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	Hipot						
Electromagnetic compatibility (EMC)*1 Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61020-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories A C power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
Conforms to the requirements of the following directive and standard. EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
EMC Directive 89/336/EEC EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
EN61326 EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1,2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor		0					
EN61000-3-2 EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
EN61000-3-3 Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
Under following conditions 1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
1. Used HV test leadwires TL08-TOS which is supplied. 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
 2. No discharge occurs at outside of the tester. 3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor 							
3. Used the shielded cable which length is less than three meters when the SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	11						
SIGNAL I/O is used. Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	0	6					
Safety*1, 2 Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	e						
Conforms to the requirements of the following directive and standard. Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
Low Voltage Directive 73/23/EEC EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
EN61010-1 Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
Class I Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
Pollution degree 2 Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	EN61010-1						
Dimensions (max.) 215 (215) W x 66 (85) H x 230 (260) Dmm Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	Class I						
Weight Approx. 2 kg Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	Pollution degree 2						
Accessories AC power cable 1 pc. TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	Dimensions (max.)	215 (215) W x 66 (85) H x 230 (260) Dmm					
TL08-TOS high-voltage test leadwires (1.5 m) 1 set Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	Weight	Approx. 2 kg					
Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	Accessories						
Operation Manual 1 copy *1: Only on models that have CE marking on the panel. Not applicable to custom order models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor		TL08-TOS high-voltage test leadwires (1.5 m) 1 set					
*1: Only on models that have CE marking on the panel. Not applicable to custom order models.*2: This instrument is a Class I equipment. Be sure to ground the protective conductor							
models. *2: This instrument is a Class I equipment. Be sure to ground the protective conductor	*1: Only on models that						
	*2: This instrument is a	Class I equipment. Be sure to ground the protective conductor					

External dimensional diagrams

instrument is grounded properly.







The Right Source For Your Test & Measurement Needs

8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012 Email: sales@calright.com http://www.calright.com



8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012 Email: sales@calright.com http://www.calright.com

The Right Source For Your Test & Measurement Needs