

# DC Ohm Meter 3585



Realization of the fastest response speed: Approx. 20 ms.

# Measurement range 30 m $\Omega$ to 300 k $\Omega$ Finest Resolution 1 $\mu\Omega$

Model 3585 is the highest speed response digital Ohm meter with 8 ranges of measurement mode from 30.000 m $\Omega$  to 300.00 k $\Omega$ . High accuracy and stable resistance measurement are achieved with DC 4 terminals method.

The application of 3585 is very wide from measuring winding contact resistance of switches to relays etc. The interface of RS-232C and utility software are available for easy test operation and data collection from the 3585. OLED enables brighter and clearer display.

# Application:

# Motor winding, Transformers, Contact resistance of Relays, Switches etc.

# **Specification:**

/ Sampling cycle	: 90 times/sec (FAST), 20 times/sec (MEDIUM), 5 times/sec (SLOW)
/ Resistance range	: 30 m $\Omega$ to 300 k $\Omega$ / Resolution 1 $\mu$ $\Omega$ to 10 $\Omega$
/ Temperature range	: −19.9 to 199.9 °C
/ Interface	: RS-232C (Standard equipment), BCD, Analog
/ Size and Weight	: 205 (W) x 64 (H) x 169 (D) mm Approx. 1 kg (main body)

Model				<b>O</b> Data	a output							
0505	-		Γ	Code			Crea	ocification		7		
3585 -LI			Code	Specification					_			
	I		-	^ 03	ROD (T		ur (stand	101U) + + RS-232C out	nut	-		
			-	03 04P	BCD (PN		$r = \frac{1}{10000000000000000000000000000000000$	S-232C output	.put	_		
				04N	BCD (NPN) output + RS-232C output							
				07	Analog	voltage	e output	+ RS-232C outp	out	_		
Measuring range (Resistance)												
Sampling type at SL	OW or ME	EDIUM r	mode (	max. 4 o	dgt.)							
Measurement range	30mΩ	300mΩ	3Ω	30Ω	300Ω	3kΩ	30kΩ	300kΩ				
Resolution	1μΩ	10μΩ	100μΩ	1mΩ	10mΩ	100mΩ	1Ω	10Ω				
Measuring current Max, applied voltage	9mV	30mV	JUmA	300mV	A DC	1mA 3V	300mV	3V				
Accuracy	Note 1	Joint <th< th=""><th></th><th></th><th></th></th<>										
Temperature coefficient	Note 2		±	(0.01%)	of rdg. + 0	).5dgt.)/	ഀഀ					
Open terminal voltage	DC6V Max.											
Note1: ±(0.2% of rdg. + 10 Accuracy: Specified at 23°C	) dgt.) ±5℃ 45 to	75%RH	Note2: =	±(0.02% o	rdg. + 1d	gt.)/℃						
For accuracy in medium mo	odesampling	, extra 3 d	dgt. Is ad	ded.								
Main specificati	ion, Sta	andar	d tune	ction,	Interfa	aces						
Specification							• ]	Interface				
Measurement method	d : DC	4 termi	inal me	thod				Outer control termi	nals : Judgm	ent output, Control input are equipped		
Maximum allowable	: All r	: All range 100 V DC						RS-232C	: Stand	lard equipment		
applied voltage								BCD	: TTL /	PNP / NPN (option)		
Open terminal voltag	e :DC	6 V ma	х.					Analog	: DC 3\	/ output for displayed of 30000.		
Display : OLED Zero supress function												
Resistance measuri	<b>ng</b> : 8 ra	anges, 3	30 mΩ	to 300 I	<Ω							
range									-	_		
Temperature range	:-19	: -19.9 to 199.9 ℃						Examples of measurement				
Sampling cycle	: 5 tii	: 5 times, 20 times, 90 times/sec						Wire winding resistance value like in Motors, transformers etc.				
Response speed : Approx. 20 ms (FAST, Fixed						e)						
	Tin	ne till ju	Idgmer	nt outpu	t outputs, measured							
	dur	ring HO	LD and	l connec	ted to s	pecime	en.					
<b>Insulation resistance</b> : Power/Case More than DC 500 V 100 M $\Omega$							4 <u>0</u> 2	ZIIC CAR				
	: POW				4C 1500	V I II	1111					
Power supply	: AC	100 10	240 V	50/60	ПΖ				<b>Autom</b> a			
Power consumption	9e : AC	90 l0 2 VA may	50 V									
Operation Temperatur	re :0 to	o 40 ℃						Contact resistance	e like in switch	nes, relavs etc.		
Weight	: App	prox. 1	kg							,,		
Dimension	: 205	5 (W) x	64 (H)	x 169 (	D) mm				9			
Accessories	: Utili	ity soft	ware, F	Powe co	rd, Cont	rol inp	ut conne	ector,		and the second		
	Ope	eration	Manua	I								
Standard function										La ar al		
Program memory	,								0	ALL R. COMPANY		
15 patterns of me	easuring n	nodes, ı	resistar	nce rang	es, High	and Lo	w			R. Carlos		
set values can be	e memori	zed.								•		
• Temperature corr	rection							Note) Select appropriate	measuring method	d and the resistance tester, depending on the compliant		
Resistance value	is correc	ted bas	ed on	the corr	ection t	empera	ature.	when measurin	ıg small signals li	ike contact resistance of relays, connectors etc.		
$\cdot$ Ratio display												
Deviation against	t the star	ndard re	esistan	ce is dip	layed in	perce	ntile.	*1 : Measuring terminals are located on both front and				
$\cdot$ Comparison funct	tion							rear panel	ls. Easy wirin	g when installing in the system.		
Good or NG judgment can be done, comparing displayed value and							nd	*2 : Data can be obtained by using utility software				
high and low set	value.							and foot s	witch (option	n).		
Averaging functio	on 		00 -			Hart P	and set					
Display is done a	veraging	max, 1	uu me	asured	nata so	rnat di	splav					

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Measured current can be cut during HOLD.

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Measurement method	: DC 4 terminal method						
Maximum allowable	: All range 100 V DC						
applied voltage							
Open terminal voltage	: DC 6 V max.						
Display	: OLED Zero supress function						
Resistance measuring	: 8 ranges, 30 m $\Omega$ to 300 k $\Omega$						
range							
Temperature range	: -19.9 to 199.9 ℃						
Sampling cycle	: 5 times, 20 times, 90 times/sec						
Response speed	: Approx. 20 ms (FAST, Fixed range) Time till judgment outputs, measured during HOLD and connected to specimen.						
Insulation resistance	: Power/Case More than DC 500 V 100 M $\Omega$						
Withstand voltage	: Power/Case More than AC 1500 V 1 min						
Power supply	: AC 100 to 240 V 50/60 Hz						
Power Tolerance range	: AC 90 to 250 V						
Power consumtion	: 28 VA max.						
<b>Operation Temperature</b>	: 0 to 40 ℃						
Weight	: Approx. 1 kg						
Dimension	: 205 (W) x 64 (H) x 169 (D) mm						
Accessories	: Utility software, Powe cord, Control input co Operation Manual						

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Display is done averaging max. 100 measured data so display fluctuation can be minimized.

### $\cdot$ Zero adjustment function

The subtacted zero set value from measured data can be displayed.

 $\cdot$  Current cut function

DC Ohm Meter