BTH Hand Held Instruments

HANDY CALIBRATOR

Outpu	t Ranges	for Caliberati	on (Soui	rce)		RTART 25% 100 %
Function	Range	Set Range	Resolution	Accuracy	Accuracy Remark	
	400.0 ohm	0 to 100 0 Ohmo	0.1	0.50/ 4	1mA exciting current without	
DCmV	100.00mV	-10.00mV to 100.00mV	0.1 0.01mV	0.5% + 4	Max Output Current 5mA	V mV
DC V	5 0000V	-0.5000V to 5.5000V	0.1mV	0.2% + 4	Max Output Current 5mA	
201	100.0Hz	1.0Hz to 110.0Hz	0.1Hz	0.2% + 2	Squara Wava 50%	mA mA
Frequency	1.00KHz	0.100KHz to 1.100KHz	1 Hz	0.2% +2	Duty Cycle Ratio	
	10.0KHz	1.0KHz to 11.0KHz	0.1KHz	0.2% + 2	5V p-p	CAT IL BROV CE
Analog Transducer XMT	-20.00mA	0 to -22.00mA	0.01mA	0.2% + 4	External Power Supply 28V Max load 1K ohm at 20mA	
DC mA	20.000mA	0 to 22.000mA	0.001mA	0.2% + 4	Internal Power Supply: 15V Max Load: 500ohms at 20mA	
DTD	PT-100	-200.0C. to 850.0C.	0.1C.	0.5% + 6	By using Pt-100-385	General Specificati
RID	Cu 50	-50.0C. to 150.0C.	0.1C.	0.5% + 6	accessories lead resistance	Parrier Originality (1)/ hatta sia
TC	R	-40C. to 1760C.	1C.	0.5%+3(<100C.)		(4*1 5) alkaling AAA batteries
	s	-20C. to 1760C.	1	0.5%+2 (>100C.)		4*1.5V Ni-MH AAA batteries)
	К	-200.0C. to 1370.0C.	0.1C.			Maximum Voltage: 600Vp-
	E	-200.0C. to 1000.0C.	1	0.5% +20	By using ITS-90 temperature	(Maximum Voltage between a
	J	-200.0C. to 1200.0C.	1	(<-100C.)	include the error of internal	jacks & earth ground)
	Т	-200.0C. to 400.0C.	1	(>-100C.)	temperature compensation	30VDC (Maximum Voltage be
	Ν	-200.0C. to 1300.0C.	1		caused by the sensor	all output jacks & earth groun
	В	-40C. to 1760C.	1C.	0.5%+3(<600C.)	İ	Operating Temperature: 5C. to :
				0.5%+2 (>600C.)		
Proces	ss Meter	Measurement		1		Storage Temperature: -10
_						55C.
Range	Resolution	Accuracy, <u>+</u> (% of F	Reading+Co	unts)		Storage Humidity: < 90% R
DC Vol	tage Meas	urement	-	Ren	narks	Size: 205*95*42mm (plus pro
						Accessories: a copy of use
4.000V	0.001V	0.2% + 4	Measuring Im	pedance: 10MOh	nm (nominal)<100pF	
4.000V 40.00V	0.001V 0.01	0.2% + 4	Measuring Im Common mod	pedance: 10MOn le rejection ratio:5 rejection ratio: 50	nm (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB	manual, a set of industrial tes
4.000V 40.00V 400.0V	0.001V 0.01 0.1V	0.2% + 4 0.2% + 4 0.2% + 4	Measuring Im Common mod Normal mode Over Voltage	pedance: 10MOn le rejection ratio: rejection ratio: 50 protection: 600Vp	1m (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses
4.000V 40.00V 400.0V	0.001V 0.01 0.1V	0.2% + 4 0.2% + 4 0.2% + 4	Measuring Im Common moc Normal mode Over Voltage	pedance: 10MOr le rejection ratio:5 rejection ratio: 50 protection: 600V	m (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor
4.000V 40.00V 400.0V DC mV 40.00mV	0.001V 0.01 0.1V Measurer 0.01mV	0.2% + 4 0.2% + 4 0.2% + 4 nent 0.5% + 6	Measuring Im Common moc Normal mode Over Voltage	pedance: 10MOr le rejection ratio:5 rejection ratio: 50 protection: 600Vp	nm (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610
4.000V 40.00V 400.0V DC mV 400.0mV 400.0mV	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV	0.2% + 4 0.2% + 4 0.2% + 4 0.2% + 4 0.5% + 6 0.2% + 4	Measuring Im Common mode Normal mode Over Voltage Measuring Im Over Voltage	pedance: 10MOr le rejection ratio: 50 protection: 600Vp pedance: 10MOr protection: 600Vp	1m (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p 1m (nominal) p-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by
4.000V 40.00V 400.0V DC mV 40.00mV 400.0mV AC Vol	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV 0.1mV	0.2% + 4 0.2% + 4 0.2% + 4 0.5% + 6 0.5% + 6 0.2% + 4	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage	pedance: 10MOr de rejection ratio: 5 rejection ratio: 50 protection: 600Vf pedance: 10MOr protection: 600Vf	1m (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p nm (nominal) p-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technical
4.000V 40.00V 400.0V DC mV 400.0mV 400.0mV AC Vol 400.0mV	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV tage Meas	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ Surement $1.0% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage	pedance: 10MOh le rejection ratio: 5 protection: 600Vf pedance: 10MOh protection: 600Vf are valid from 5%	Im (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p Im (nominal) p-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technical commission
4.000V 40.00V 400.0V DC mV 400.0mV 400.0mV AC Vol 400.0mV 400.0mV	0.001V 0.01 0.1V 0.1V 0.01mV 0.1mV tage Meas 0.1mV 0.001V	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ Surement $1.0% + 4$ $0.5% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV	pedance: 10MOh le rejection ratio: 5/ protection: 600Vf pedance: 10MOh protection: 600Vf are valid from 5% / is only confined	Im (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p m (nominal) p-p to 100% of amplitude to manual range; AC putina impedance:	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technical commission
4.000V 400.00V 400.0V 400.0mV 400.0mV 400.0mV 400.0mV 400.0mV 400.0mV 4.000V	0.001V 0.01 0.1V 0.1V 0.1mV 0.1mV 0.1mV 0.1mV 0.1mV 0.01V 0.001V	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ Surement $1.0% + 4$ $0.5% + 4$ $0.5% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV conversion av 10MOhm(nor	pedance: 10MOh le rejection ratio:5 rejection ratio:5 protection: 600Vf protection: 600Vf are valid from 5% / is only confined erage value: Mee hinal), <100pF, C	Im (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p Im (nominal) p-p to 100% of amplitude to manual range; AC saving impedance: ommon mode rejection	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technica commission Sailent Feature
4.000V 400.00V 400.0V 400.0mV 400.0mV 400.0mV 400.0mV 4.000V 4.000V 4.000V	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV tage Meas 0.1mV 0.001V 0.001V 0.01V	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ Surement $1.0% + 4$ $0.5% + 4$ $0.5% + 4$ $0.5% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV conversion av 10MOhm(nom ratio: 50Hz or	pedance: 10MOH le rejection ratio: 5 protection: 600Vf protection: 600Vf protection: 600Vf are valid from 5% l' is only confined erage value: Mea hinal), <100pF, C 60Hz>100dB	Im (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p mm (nominal) p-p to 100% of amplitude to manual range; AC asuring impedance: ommon mode rejection	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technica commission Sailent Feature Direct TC & RTD output DC current, 001mA resolution
4.000V 400.0V 400.0V 400.0mV 400.0mV 400.0mV 400.0mV 4000V 4000V 400.0V 400.0V	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV 0.1mV tage Meas 0.1mV 0.001V 0.001V 0.01V 0.01V 0.01V	$\begin{array}{c} 0.2\% + 4 \\ \hline 0.5\% + 6 \\ \hline 0.2\% + 4 \\ \hline 0.2\% + 4 \\ \hline 0.5\% + 4 \\ $	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV conversion av 10MOhm(nom ratio: 50Hz or Overvoltage p	pedance: 10MOh le rejection ratio: 5 rejection ratio: 50 protection: 600Vf pedance: 10MOh protection: 600Vf are valid from 5% l' is only confined erage value: Mea ninal), <100pF, Ci 60Hz>100dB rotection: 600V p	Im (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p Im (nominal) p-p Ito 100% of amplitude to manual range; AC asuring impedance: ommon mode rejection	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technica commission Sailent Feature Direct TC & RTD output DC current .001mA resolution Back Light LCD
4.000V 400.0V 400.0V 400.0mV 400.0mV 400.0mV 400.0mV 4.000V 400.0V 400.0V 400.0V 400.0V	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV 0.1mV 0.1mV 0.001V 0.001V 0.01V 0.1V 0.1V	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ Surement $1.0% + 4$ $0.5% + 4$ $0.5% + 4$ Surement $0.5% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV conversion av 10MOhm(nom ratio: 50Hz or Overvoltage p	pedance: 10MOh le rejection ratio: 5 rejection ratio: 5 protection: 600Vf pedance: 10MOh protection: 600Vf are valid from 5% i sonly confined erage value: Mea ninal), <100pF, Cr 60Hz>100dB rotection: 600V p	Im (nominal)<100pF 50Hz or 60Hz >100dB 0Hz or 60Hz. >45dB p-p mm (nominal) p-p to 100% of amplitude to manual range; AC asuring impedance: ommon mode rejection	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC611 (Safety standard issued by International Electro-technica commission Sailent Feature Direct TC & RTD output DC current .001mA resolution Back Light LCD Polativo Panga Solution 25% to
4.000V 400.0V 400.0V 400.0W 400.0mV 400.0mV 400.0mV 400.0W 400.0V 400.0V 400.0V 400.0V 400.0V	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV tage Meas 0.1mV 0.001V 0.001V 0.01V 0.01V 0.01V 0.01V 0.01V	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ Surement $1.0% + 4$ $0.5% + 4$ $0.5% + 4$ Surement $0.2% + 4$ $0.5% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV conversion av conversion	pedance: 10MOP le rejection ratio: 5/ rejection ratio: 5/ protection: 600V/ protection: 600V/ protection: 600V/ are valid from 5% l' is only confined erage value: Mea inal), <100pF, C 60Hz>100dB rotection: 600V p pedance: 1 Ohm	Im (nominal)<100pF 50Hz or 60Hz. >100dB 0Hz or 60Hz. >45dB p-p m (nominal) p-p to 100% of amplitude to manual range; AC asuring impedance: ommon mode rejection >-p	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC61 (Safety standard issued by International Electro-technica commission Sailent Feature Direct TC & RTD output DC current .001mA resolution Back Light LCD Relative Range Selection 25% to
4.000V 400.0V 400.0V 400.0W 400.0mV 400.0mV 400.0mV 400.0V 400.0V 400.0V 400.0V 400.0V 400.0W AC Cur 400.0mA	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV tage Meas 0.1mV 0.01V 0.001V 0.01V 0.01V 0.01V 0.01V 0.01V 0.01V 0.01V 0.01V 0.01V 0.01M 0.001V 0.01M 0.00M 0.01M 0.01M 0.01M 0.01M 0.01M 0.01M 0.00M	$\begin{array}{c} 0.2\% + 4 \\ 0.2\% + 4 \\ \hline 0.2\% + 4 \\ \hline 0.2\% + 4 \\ \hline 0.5\% + 6 \\ \hline 0.2\% + 4 \\ \hline surement \\ \hline 1.0\% + 4 \\ \hline 0.5\% + 4 \\ \hline 0.5\% + 4 \\ \hline 0.5\% + 4 \\ \hline surement \\ \hline 0.2\% + 4 \\ \hline 0.2\% + 4 \\ \hline 0.2\% + 4 \\ \hline surement \\ \hline \end{array}$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range; 400mV conversion av 10MOhm(nom ratio: 50Hz or Overvoltage p	pedance: 10MO/ le rejection ratio: 5/ rejection ratio: 5/ protection: 600V/ protection: 600V/ protection: 600V/ are valid from 5% l' is only confined erage value: Mea inal), <100pF, C 60Hz>100dB rotection: 0.5Amp/2 pedance: 1 Ohm	Im (nominal)<100pF 50Hz or 60Hz. >100dB 0Hz or 60Hz. >45dB p-p Im (nominal) p-p to 100% of amplitude to manual range; AC asuring impedance: ommon mode rejection >-p 250V fast-blow fuse	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC614 (Safety standard issued by International Electro-technica commission Sailent Feature Direct TC & RTD output DC current .001mA resolution Back Light LCD Relative Range Selection 25% to Loop Power Direct Caliberation possible
4.000V 400.00V 400.0V 400.0mV 400.0mV 400.0mV 400.0mV 400.0V 400.0V DC Cur 400.0mA 400.0mA 400.0mA	0.001V 0.01 0.1V Measurer 0.01mV 0.1mV tage Meas 0.1mV 0.001V 0.001V 0.01V 0.01V 0.01V 0.1V rent Meas rent Meas	0.2% + 4 $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.5% + 6$ $0.2% + 4$ $0.5% + 4$ $0.5% + 4$ $0.5% + 4$ $0.5% + 4$ $0.5% + 4$ $0.2% + 4$ $0.2% + 4$ $0.2% + 4$ $0.2% + 4$	Measuring Im Common moc Normal mode Over Voltage Measuring Im Over Voltage Specification a range, 400mV conversion av 10MOhm(non ratio: 50Hz or Overvoltage p Over Load Pro Measuring Im	pedance: 10MOP le rejection ratio: 5/ rejection ratio: 5/ protection: 600Vf protection: 600Vf are valid from 5% / is only confined erage value: Mee hinal), <100pF, Cr 60Hz>100dB rotection: 600V p potection: 0.5Amp// pedance: 1 Ohm	Im (nominal)<100pF 50Hz or 60Hz. >100dB 0Hz or 60Hz. >45dB p-p Im (nominal) p-p to 100% of amplitude to manual range; AC asuring impedance: ommon mode rejection >-p 250V fast-blow fuse	manual, a set of industrial tes (with alligator) clips and two 63mA/250V fast-blow fuses Option: Adaptor Safety: Compiled with IEC610 (Safety standard issued by International Electro-technica commission Sailent Feature Direct TC & RTD output DC current .001mA resolution Back Light LCD Relative Range Selection 25% to Loop Power Direct Caliberation possible (Refer pg 51 to 57)

Appearance

BTH C9 PROCEES METER

Resista	Resistance Measurement Marketed By							
400.0Ohms	0.1 Ohms	0.2% + 4		-				
4.000KOhms	0.001KOhms	0.2% + 4	•	BTH C9 MODEES MATER				
40.00KOhms	0.01KOhms	0.2% + 4	Open Cicuit voltage:0.4V;					
400.0KOhms	0.1KOhms	0.2% + 4	Guide lead resistance is excluded in the accuracy Over Voltage protection: 600V p-p	Relative Measurement Option				
4.000MOhms 0.001MOhms 0.5% + 4		0.5% + 4		Range Limit Change	Toggle			
40.00MOhm	40.00MOhms 0.01MOhms 1.0% + 4			NAME RELA				
RTD Me	asureme	nt		Hold Button	v			
Pt100	-200~700C.	1C.Resolution .5%+2 Acc.	By using Pt100-385 temperature scale	Frequency XMT mA V mV				
Cu50	-50~150C.	1C.Resolution .5%+4 Acc.	Measuring Current 1mA Note Attached Lead Resistance is excluded	Back Light				
TC Mea	suremen	t		HA HA				
R	-40 to 1760C.	0.5% + 3(<100C.)		CATTERN CE MEASURE OUTPUT EVENTUALISE				
S	-20 to 1760C.	0.5% + 2(>100C.)						
В	400 to 1800C.	0.5% + 3(<600C.) 0.5% + 2(>600C.)	Resolution 1C	Voltage Jack	High Cu			
E	-200 to 500C.		Note The accuracy does not include the					
К	-200 to 950C.	0.5% + 2(<100C.) 0.5% + 1(>100C.)	error of internal temperature compensation	1				
J	-200 to 700C.		caused by a sensor. The range of internal temperature compensation sensor is \pm 2C.					
Т	-200 to 400C.							
N	-200 to 1000C	•						
Freque	ncy Count	t						
50.00Hz	0.01Hz	0.1% + 3						
500.0Hz	0.1Hz	0.1% + 3						
5.000KHz	1Hz	0.1% + 3	Display Update 3 times/second (>10Hz)					
50.00KHz	0.01KHz	0.1% + 3						
100.0Hz	0.1KHz	0.1% + 3						
Diode T	est & Cor	ntinuity Test						
Diode Test I Open Circuit	ndication - Displ t voltage: 1.1V-1	lays voltage drop across de I.6V Current:<0.2mA (Typic	vice, al Value) Accuracy + (2% reading + 1 Count)					
Continu	ity Test Ir	ndication						
continuous A	Audible tone for t	test Resistance<50 Ohms						
Open circuit	voltage: <0.45							
Short Circuit	current: 130 m	icroA typical						
Overload pro	otection: 600V pe	eak						

Instrukart

Ph: +91 (40)40262020 | Mob: +91 88865 50506;

Email : info@instrukart.com | www.instrukart.com

Head Office: #18,Street-1A, Czech Colony, Sanath Nagar, Hyderabad -500018, INDIA.

