

High-accuracy, High-speed, Multi-Point Measurement

NEW

Measurement Box

High-a<mark>ccuracy</mark>, High-speed, Compact

Measurement Unit

EX-50H / EU-10H Features

Measurement units for 50 channels / 10 channels as standard specifications

Measurement units for 50 channels (EX-50H) and 10 channels (EU-10H) are incorporated as the standard specifications.

Highly stable measurement in high accuracy

Due to the usage of our unique next-generation A/D conversion method that satisfies both high-speed measurement and high accuracy and stability, highly stable measurement in high accuracy is achieved eliminating the influence of various thermoelectromotive forces, thermal zero shift of amplifier, and power line noise.

Measurement interval not influenced by the number of measuring points

Owing to the adoption of ultra high-speed field network, measurement of 1000 points is possible in 0.1 seconds at the fastest.

In high-speed mode, measurement is possible every 100 milliseconds. Even in high-accuracy mode that reduces dispersion of measured values, measurement is possible every 400 milliseconds.

High resolution mode (0.1×10⁻⁶ strain) provided

EU-10

Measurement with resolution of 0.1×10^{-6} strain is possible using the full bridge high resolution mode or full bridge constant current 350Ω high resolution mode.

Complete compensation method of strain (Comet) provided

The complete compensation method of strain is applicable for the sensor mode of quarter bridge 3-wire.

Temperature-integrated strain gauge applicable

Both strain and temperature can be measured in one channel using a temperature-integrated strain gauge.

Various check functions

Various check functions are available such as insulation / sensitivity / dispersion of sensor, thermocouple burnout, leadwire resistance and bridge output.

Tokyo Measuring Instruments Lab.

T-ZACCS 🗌

EX-50H / EU-10H Specifications

Measuring performance

Common to all mode				
Number of measuring point	EX-5	0H(50 pc	oints) / E	U-10H(10 points)
Input terminal	Accepts both screwing and soldering			
Quick connection terminal	NDIS	connecto	or recepta	icle
Compensation mode	Com	et NON, (Comet A,	Comet B
	During	measurement	Open ch	IECK
Check function	Sens	or	Dispersio burnout c check, Br	n check, Sensitivity check, n check, Thermocouple check, Leadwire resistance idge output check
Connection with data lo	ogger			
Number of connection	EX-50)H:20 uni	ts at maxi	mum / EU-10H : 100 units
Extension distance	100	m (betwee	en instrur	ments)
Connection cable	EX c	onnectior	n cable (0	CR-89**)
Power supply				
Power supply voltage	AC1	00~240V	50/60Hz	7
Maximum power consumption	104V	A MAX		-
Environment				
Operating environment	0~+	50°C 85	%BH or l	less (No condensation)
Othoro	<u> </u>	000 00	/01111 01 1	
		0110000/1		
External dimensions (Excluding rubber protectors and projecting parts)	EU-1	0H:320(V 0H:328(V	v)×130(V)×98(H	n)×490(D)mm l)×183(D)mm
Weight	EX-5	0H: Appro	ox. 10kg	/ EU-10H: Approx. 3kg
Standard accessories				
Operation manual (CD)		EX-50H	:1 / E	U-10H : 1
AC power cable (CR-01)		EX-50H	:1 / E	U-10H:1
Ground wire (CR-20)		EX-50H	:1 / E	U-10H : 1
Connection cable (CR-89	2M)	EX-50H	:1 / E	U-10H : 1
Phillips screwdriver		EX-50H	:1 / E	U-10H:1
High-speed mode				
Measuring speed	0.1 seco	onds (0.2 secon	ds when tempe	erature-integrated strain gauge is used)
Strain measurement				
	Quar	ter bridge	e 3-wire	120,240,350Ω
	Half	bridge		60~1000Ω
	Half b	Half bridge common dummy		60~1000Ω
Applicable connection	Full bridge			60~1000Ω
and Gauge resistance	Full b	ridge consta	ant current	350Ω
	Full	oridge U-2	2V mode	60~1000Ω 120.240.350Ω
	strain	gauge mo	de	T(JIS C1602:2015
O	(quar	ter bridge	3-wire)	IEC 60584-1:2013)
Sensor cable extension range		oge constant	current 35012	$\pm 0.1 \approx -0.5\%$ / Cable
Sensitivity variation	curre	nt 350Ω	Stant	loop resistance 100Ω
Compensation range of	Appro	ox. 100Ω d	or less for	gauge resistance 120Ω
Comet B (quarter bridge	Appro	ox. 200Ω (or less for	gauge resistance 240Ω
3-wire)	Appr	ox. 300Ω o	or less for	gauge resistance 350Ω
Stability on zero	± 1.0 ± 0.5	×10 ⁻⁶ stra	un/°C or un/°C or	less (quarter bridge)
Initial unbelower	± 750	0×10 ⁻⁶ str	ain or les	s (quarter bridge)
mitiai unbalance	±500	0×10 ⁻⁶ str	ain or les	s (half bridge)
DC voltage measurement	D.C.	0.40		
V1/1	DC±	:040mV		
Input impedance	1 MC) or more		
Allowable input voltage between B and D	DC+	:70V MA)	(
Thermocouple temperatur	e <u>me</u> a	sur <u>emen</u>	t	
Applicable thermocouple	Т,К,	,B,S,R,E,	N	
	JIS	C1602:20	15、IEC 6	0584-1:2013
Pt-RTD temperature meas	D+10		constant	current 3 wire)
Applicable Pt-RTD	JIS	C1604:20	13, IEC60)751:2008
Strain measurement (High	1-spec	d mode)		
Bridge excitation		V 4ms(50	Hz)	
Initial value memory range	+160)000×10-6	strain	
Temperature coefficient of accuracy	+0.0	02%rda/	C	
Socular change of ecouracy	± 0.0	2% rd~ /		
Secular change of accuracy	±0.0	2 /orug/ ye	rango	Besolution
	+ /	10000×10	⁶ strain	1X10 ⁻⁶ strain
Measuring range and	± 8	30000×10	⁶ strain	2×10 ⁻⁶ strain
	±16	0000×10	 strain 	4×10 [∞] strain 8×10 ⁻⁶ strain
	± 64	40000×10) ⁻⁶ strain	16×10 ⁻⁶ strain
	±(0.0)8%rdg+3	digit) (Qu	arter bridge, Half bridge,
	$\pm(0.0)$)8%rdg+6	digit) (Fu	II bridge 0 - 2V mode)

Strai (High	n measureme	ent wit	h constan	nt current methoo	I (Full bridge only)	
Bridg	e excitation		DC6m	A 4ms (50Hz)		
Bridge resistance		350Ω	350Ω			
Initia	l value memo	ry rang	ge ±1600	00×10 ⁻⁶ strain		
Temp accu	perature coeff racy	icient	of ±0.002	2%rdg/°C		
Secu	lar change of a	accura	cy ±0.029	%rdg/year		
			Mea	asuring range	Resolution	
Meas	suring range	and	± 40 ± 80	000×10 ⁻⁶ strain	2×10 ⁻⁶ strain	
resol	ution		±160 ±320	000×10 ⁻ ° strain	4×10 ⁻ ° strain 8×10 ⁻⁶ strain	
			±640	000×10 ⁻⁶ strain	16×10 ⁻⁶ strain	
Accu	iracy (23°C±	5°C)	±(0.08	%rdg+3digit)		
DC v	oltage meas	ureme	nt (High-s	peed mode)		
Initia	I value memo	ory rar				
V1/1		±160.0				
VI/I Temne	oo	of accura	± 10.00	24%rdg/°C		
Secu	lar change of a	accura	± 0.002	4%rdg/vear		
			Me	asuring range	Resolution	
			÷	40.000mV	0.001mV	
		V1/1	±	:160.000mV	0.002mV 0.004mV	
Meas	suring range		± +	:320.000mV :640.000mV	0.008mV 0.016mV	
and I	resolution			± 4.0000V	0.0001V	
		V1/1	00	± 8.0000V ±16.0000V	0.0002V 0.0004V	
				±32.0000V	0.0008V	
Accura	cy (23°C±5°C)	V1/1	±(0.08	%rdg+6digit)	0.00100	
When I	noving average is	V1/1	00 ±(0.08	%rdg+6digit)		
Accura	cy (23°C±5°C)	V1/1	±(0.08	%rdg+50digit)		
When I not use	noving average is ed	V1/1	00 ±(0.08	%rdg+50digit)		
Pt-R	TD temperatu	ure me	asuremen	nt (JIS C1604:20 ⁻	13, IEC 60751-1:2008	
Pt10	0) (High-spee	ed mo	de)			
Meas	ICADIE PT-RII	<u>л</u> Ч	3-wire	(Pt3W)		
Linea	arization	<u>u</u>	Digital	processing		
Tempe	rature coefficient of	of accura	acy ±0.002	20%rdg∕℃		
Secu	lar change of a	accura	$\frac{\pm 0.059}{200}$	%rdg/year		
Reso	lution		0.1℃	10000		
Accu	racy (23°C±	5°C)	±(0.1%	%rdg+0.3℃)		
Ther	mocouple te	mpera	ture mea	surement	nd mode)	
Appli	cable thermoco	ouple	T,K,J,B,S	S,R,E,N		
Linea	arization		Digital pr		$cv(23^{\circ}C + 5^{\circ}C)$	
Туре	Measuring r	ange	Resolution	External RJC	C) (Internal RJC)	
	- 250 ~ - 20	00℃	0.1°C	$\pm (0.31\%$ rdg+1.9°	C) $\pm (0.31\% rdg + 5.2\%)$	
Т	- 100 ~	0°C	0.1°C	±(0.14%/dg+0.8 ±(0.11%/dg+0.5	C) $\pm (0.11\% \text{rdg} + 2.1\%)$	
	0~+4	0°00	0.1°C	$\pm (0.08\% rdg + 0.4\% rdg + 0.4\% rdg + 0.0\% $	C) $\pm (0.08\% rdg + 0.9\%)$	
ĸ	- 210 ~ - 10 - 160 ~	0°C	0.1°C	$\pm (0.17\%$ rdg+0.9° $\pm (0.12\%$ rdg+0.6°	C) $\pm (0.12\% \text{rdg} + 2.5\%)$ C) $\pm (0.12\% \text{rdg} + 1.5\%)$	
~	0 ~+ 90 + 960 ~+13	60℃ 70℃	0.1°C 0.1°C	±(0.09%rdg+0.4° ±(0.10%rdg+0.9°	C) ±(0.09%rdg+0.9℃) C) ±(0.10%rdg+1.5℃)	
	- 200 ~ - 10	50°C	0.1°C	±(0.15%rdg+0.6°	C) ±(0.15%rdg+1.8℃)	
J	- 160 ~ 0 ~+ 70	3°0 3°00	0.1°C 0.1°C	±(0.11%rdg+0.4° ±(0.09%rdg+0.3°	C) ±(0.11%rdg+1.3℃) C) ±(0.09%rdg+0.8℃)	
	+ 700 ~+12	℃00	0.1°C	±(0.09%rdg+0.6°	C) ±(0.09%rdg+1.0°C))	
в	+ 200 ~+ 28 + 280 ~+ 80	0°℃ 00℃	0.5~0.4°C 0.3~0.1°C	±(0.03%rdg+6.0° ±(0.03%rdg+2.4°	C) $ \pm(0.03\% \text{rdg}+6.0\%)$ C) $ \pm(0.03\% \text{rdg}+2.4\%)$	
	+ 800 ~+17	'60℃	0.1°C	±(0.04%rdg+2.6°	C) $\pm (0.04\% rdg + 2.6\%)$	
S	- 10 ~+ 20 + 200 ~+17	℃00 00℃	0.1°C 0.1°C	$\pm (0.06\% rdg + 2.4\% td + 0.05\% rdg + 0.4\% td + 0.05\% rdg + 0.4\% td + 0.4\% $	C) $\pm (0.06\% rdg + 3.1\%)$ C) $\pm (0.05\% rdg + 2.0\%)$	
R	- 10 ~+ 1	50°C	0.1°C	±(0.06%rdg+2.4	C) $\pm (0.06\% rdg + 3.1\%)$	
	+ 150 ~+17	60°С 50°С	0.1°C	$\pm (0.05\% rdg + 1.5\% rdg + 0.6\% rdg + 0.0\% $	C) $\pm (0.05\% rdg + 1.8\%)$	
E	+ 550 ~+10	00°C	0.1°C	±(0.09%rdg+0.4°	C) $\pm (0.09\% rdg + 0.9\%)$	
N	- 200 ~ 0 ~±10	2°0	0.1°C	$\pm (0.11\% rdg + 1.3\% rdg + 0.5\% rdg \pm 0.5\% $	C) $\pm (0.11\% rdg + 2.7\%)$ C) $\pm (0.09\% rdg \pm 1.0\%)$	
11	+1090~+13	00°C	0.1°C	±(0.06%rdg+0.9°	C) $\pm (0.06\% rdg + 1.3\%)$	

Note: Accuracy of sensor is not included. Thermocouple B does not use reference junction. High-accuracy mode

Measuring speed	0.4 seconds (50Hz) / 0 When temperature-integused, it is as follows.	.34 seconds (60Hz) grated strain gauge is
Strain measurement	0.0 seconds (30112) 7 (
	Quarter bridge 3-wire	120 240 3500
	Half bridge	60~1000Ω
	Half bridge common dummy	60~1000Ω
	Full bridge	60~1000Ω
Applicable connection	Full bridge constant current	350Ω
method	Full bridge high resolution mode	120~1000Ω
and Gauge resistance	Full bridge constant current	350Ω
	Full bridge 0-2V mode	60~10000
	Temperature-integrated	120.240.350Ω
	strain gauge mode	T(JIS C1602:2015,
-	Full bridge constant	Cable loop resistance
Sensor cable extension range	Full bridge constant current	Cable loop resistance
	high resolution 350Ω	160Ω or less
	Full bridge constant	
Sensitivity variation	Full bridge constant current	+0.1~-0.5%/ Cable loop resistance 100Ω
	high resolution 350Ω	
Compensation range of	Approx. 100Ω or less for	gauge resistance 120Ω
Comet B (quarter bridge	Approx. 200Ω or less for	gauge resistance 240Ω
3-wire)	Approx. 300Ω or less for	gauge resistance 350Ω
Stability on zero	$\pm 1.0 \times 10^{-6}$ strain/°C or $\pm 0.5 \times 10^{-6}$ strain/°C or	less (quarter bridge)
	$\pm 750 \times 10^{-6}$ strain or les	s (quarter bridge)
Initial unbalance	±500×10 ⁻⁶ strain or les	s (half bridge)
DC voltage measurement		
V1/1	DC±640mV	
V 1/ 100	DC±64V 1MO以上	
Allowable input voltage		
between B and D	DC±70V MAX	
Thermocouple temperatur	e measurement	
Applicable thermocouple	JIS C1602:2015, IEC 6	0584-1:2013
Pt-RTD temperature meas	surement	
Pt-RTD temperature meas Applicable Pt-RTD	surement Pt100 (500µA constant JIS C1604:2013, IEC60	current 3-wire) 0751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higt	surement Pt100 (500µA constant JIS C1604:2013, IEC6(n-accuracy mode)	current 3-wire) 0751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higt Bridge excitation	urement Pt100 (500µA constant JIS C1604:2013, IEC6(-accuracy mode) DC2V 24ms(50Hz)	current 3-wire) 1751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range	urement Pt100 (500µA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 [€] strain	current 3-wire) 1751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy	urement Pt100 (500 μ A constant JIS C1604:2013, IEC6(-accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁻⁶ strain ±0.002%rdg/°C	: current 3-wire) 0751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy	urement Pt100 (500 μ A constant JIS C1604:2013, IEC6(-accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁻⁶ strain ±0.002%rdg/°C ±0.02%rdg/year	current 3-wire) 0751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy	urement Pt100 (500µA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁻⁶ strain ±0.002%rdg/°C ±0.02%rdg/year Measuring range	current 3-wire) 0751:2008
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy	urement Pt100 (500µA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁻⁶ strain ±0.002%rdg/°C ±0.02%rdg/year Measuring range ± 40000×10 ⁻⁶ strain	current 3-wire) 0751:2008 Resolution 1×10 ⁻⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.002%rdg/°C ±0.02%rdg/year Measuring range ± 40000×10 ⁶ strain ± 80000×10 ⁶ strain ± 40000×10 ⁶ strain	Resolution 1×10 ⁻⁶ strain 2×10 ⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.002%rdg/°C ±0.02%rdg/year Measuring range ± 40000×10 ⁶ strain ±80000×10 ⁶ strain ±320000×10 ⁶ strain ±320000×10 ⁶ strain	Resolution 1×10 ⁻⁶ strain 2×10 ⁻⁶ strain 4×10 ⁻⁶ strain 8×10 ⁻⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁻⁶ strain ±0.002%rdg/year Measuring range ±40000×10 ⁻⁶ strain ±80000×10 ⁻⁶ strain ±320000×10 ⁻⁶ strain ±320000×10 ⁻⁶ strain ±320000×10 ⁻⁶ strain ±320000×10 ⁻⁶ strain	Resolution 1×10 ⁶ strain 4×10 ⁶ strain 8×10 ⁶ strain 16×10 ⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁻⁶ strain ±0.02%rdg/year Measuring range ±40000×10 ⁻⁶ strain ±80000×10 ⁻⁶ strain ±160000×10 ⁻⁶ strain ±320000×10 ⁻⁶ strain ±640000×10 ⁻⁶ strain ±640000×10 ⁻⁶ strain ±640000×10 ⁻⁶ strain ±640000×10 ⁻⁶ strain	Resolution 1×10 ⁻⁶ strain 4×10 ⁻⁶ strain 8×10 ⁻⁶ strain 10×10 ⁻⁶ strain 1×10 ⁻⁶ strain 4×10 ⁻⁶ strain 16×10 ⁻⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±40000×10 ⁶ strain ±80000×10 ⁶ strain ±160000×10 ⁶ strain ±0000×10 ⁶ strain ±0000×10 ⁶ strain ±0000×10 ⁶ strain ±0000×10 ⁶ strain ±640000×10 ⁶ strain ±640000×10 ⁶ strain ±0.05%rdg+1digit) solution mode (Full bridge of the strain)	Resolution 1×10^{-6} strain 2×10^{-6} strain 4×10^{-6} strain 4×10^{-6} strain 16×10^{-6} strain 16×10^{-6} strain 10^{-6} strain 10^{-7}
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higt Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.02%rdg/°C ±0.02%rdg/vear Measuring range ±40000×10 ⁶ strain ±80000×10 ⁶ strain ±320000×10 ⁶ strain ±64000×10 ⁶ strain ±640000×10 ⁶ strain ±6000×10 ⁶ strain ±0.05%rdg+1digit solution mode (Full bridge of DC6mA 24ms(50Hz)	Resolution 1×10^{-6} strain 2×10^{-6} strain 4×10^{-6} strain 4×10^{-6} strain 16×10^{-6}
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higt Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) $\pm 160000 \times 10^6$ strain $\pm 0.02\% rdg/°C$ $\pm 0.02\% rdg/°C$ $\pm 0.02\% rdg/°C$ $\pm 0.02\% rdg/9ear$ Measuring range $\pm 40000 \times 10^6$ strain $\pm 320000 \times 10^6$ strain $\pm 40000 \times 10^6$ strain $\pm 40000 \times 10^6$ strain $\pm 40000 \times 10^6$ strain $\pm 64000 \times 10^6$ strain $\pm 6000 \times 10^6$ strain $\pm 3000 \times 10^6$ strain $\pm 0.05\% rdg + 1digit$ solution mode (Full bridge of D6mA 24ms(50Hz) 350Ω	Resolution 1×10^{-5} strain 2×10^{-5} strain 4×10^{-5} strain 4×10^{-5} strain 16×10^{-5}
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.02%rdg/%C ±0.02%rdg/year Measuring range ±40000×10 ⁶ strain ±320000×10 ⁶ strain ±40000×10 ⁶ strain ±160000×10 ⁶ strain ±40000×10 ⁶ strain ±40000×10 ⁶ strain ±64000×10 ⁶ strain ±60000×10 ⁶ strain ±160000×10 ⁶ strain ±160000×10 ⁶ strain ±160000×10 ⁶ strain	Resolution 1×10^{-5} strain 2×10^{-5} strain 4×10^{-5} strain 4×10^{-5} strain 16×10^{-5}
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (High Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge resistance Initial value memory range Temperature coefficient of accuracy	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.002%rdg/°C ±0.02%rdg/year Measuring range ±40000×10 ⁶ strain ±320000×10 ⁶ strain ±640000×10 ⁶ strain ±160000×10 ⁶ strain ±160000×10 ⁶ strain ±0.05%rdg+1digit) solution mode (Full bridge of DC6mA 24ms(50Hz) 350Ω ±160000×10 ⁶ strain ±0.002%rdg/°C	Resolution 1×10 ⁶ strain 2×10 ⁶ strain 4×10 ⁶ strain 8×10 ⁶ strain 16×10 ⁶ strain 16×10 ⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range Temperature coefficient of accuracy Secular change of accuracy	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) $\pm 160000 \times 10^6$ strain $\pm 0.02\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 80000 \times 10^6$ strain $\pm 80000 \times 10^6$ strain $\pm 160000 \times 10^6$ strain $\pm 40000 \times 10^6$ strain $\pm 0.02\%$ rdg+1digit) solution mode (Full bridge of DC6mA 24ms(50Hz) 350Ω $\pm 160000 \times 10^6$ strain $\pm 0.002\%$ rdg/°C $\pm 0.002\%$ rdg/year	Resolution 1×10 ⁻⁶ strain 2×10 ⁻⁶ strain 4×10 ⁻⁶ strain 8×10 ⁻⁶ strain 16×10 ⁻⁶ strain 16×10 ⁻⁶ strain
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range Temperature coefficient of accuracy Secular change of accuracy	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) $\pm 160000 \times 10^6$ strain $\pm 0.02\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 0.02\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 30000 \times 10^6$ strain $\pm 40000 \times 10^6$ strain $\pm 0.000 \times 10^6$ strain $\pm 0.000 \times 10^6$ strain $\pm 0.05\%$ rdg+1digit) solution mode (Full bridge of DC6mA 24ms(50Hz) 350Ω $\pm 160000 \times 10^6$ strain $\pm 0.002\%$ rdg/%C $\pm 0.002\%$ rdg/%C $\pm 0.02\%$ rdg/year Measuring range	Resolution 1×10 ⁻⁶ strain 2×10 ⁻⁶ strain 4×10 ⁻⁶ strain 8×10 ⁻⁶ strain 16×10 ⁻⁶ strain 16×10 ⁻⁶ strain Resolution
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Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.02%rdg/%C ±0.02%rdg/year Measuring range ±40000×10 ⁶ strain ±160000×10 ⁶ strain ±320000×10 ⁶ strain ±40000×10 ⁶ strain ±40000×10 ⁶ strain ±40000×10 ⁶ strain ±64000×10 ⁶ strain ±0.05%rdg+1digit) solution mode (Full bridge of DC6mA 24ms(50Hz) 350Ω ±160000×10 ⁶ strain ±0.02%rdg/%C ±0.02%rdg/%C ±0.02%rdg/%C ±0.02%rdg/%C ±0.02%rdg/%C ±0.002%rdg/%C ±0.002%rdg/%C ±0.000×10 ⁶ strain ±160000×10 ⁶ strain ±640000×10 ⁶ strain ±640000×10 ⁶ strain ±640000×10 ⁶ strain ±640000×10 ⁶ strain ±0.05%rdg+1digit) solution mode (Full bridge of strain	Resolution 1×10^{-5} strain 2×10^{-5} strain 2×10^{-5} strain 4×10^{-5} strain 4×10^{-5} strain 16×10^{-5} strain 16×10^{-5} strain 1×10^{-5} strain 2×10^{-5} strain 2×10^{-5} strain 1×10
Pt-RTD temperature meas Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution	urement Pt100 (500 μ A constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.002%rdg/°C ±0.000×10 ⁶ strain ±160000×10 ⁶ strain ±320000×10 ⁶ strain ±640000×10 ⁶ strain ±60000×10 ⁶ strain ±60000×10 ⁶ strain ±60000×10 ⁶ strain ±0.02%rdg/qc DC6mA 24ms(50Hz) 350Ω ±160000×10 ⁶ strain ±0.02%rdg/%C ±0.02%rdg/%C ±0.02%rdg/%C ±0.02%rdg/%C ±0.02%rdg/%C ±0.000×10 ⁶ strain ±320000×10 ⁶ strain ±640000×10 ⁶ strain ±640000×10 ⁶ strain ±60000×10 ⁶ strain ±60000×10 ⁶ strain ±0.05%rdg+1digit) solution mode (Full bridge o	Resolution 1×10^{-6} strain 2×10^{-6} strain 2×10^{-6} strain 4×10^{-6} strain 4×10^{-6} strain 16×10^{-6} strain 16×10^{-6} strain 1×10^{-6} strain 2×10^{-6} strain 1×10^{-6} strain 2×10^{-6} strain 1×10
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Pt-RTD temperature mease Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Initial value memory resolution	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) $\pm 160000 \times 10^6$ strain $\pm 0.02\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 80000 \times 10^6$ strain $\pm 160000 \times 10^6$ strain $\pm 40000 \times 10^6$ strain $\pm 320000 \times 10^6$ strain $\pm 160000 \times 10^6$ strain $\pm 0.05\%$ rdg+1digit) solution mode (Full bridge of DC6mA 24ms(50Hz) 350Ω $\pm 160000 \times 10^6$ strain $\pm 0.02\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 0.02\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 0.002\%$ rdg/year Measuring range $\pm 40000 \times 10^6$ strain $\pm 60000 \times 10^6$ strain $\pm 60000 \times 10^6$ strain $\pm 60000 \times 10^6$ strain $\pm 160000 \times 10^6$ strain $\pm 160000 \times 10^6$ strain $\pm 16000.0 \times 10^6$ strain $\pm 16000.0 \times 10^6$ strain	Resolution 1×10^{-6} strain 2×10^{-6} strain 4×10^{-6} strain 4×10^{-6} strain 16×10^{-6} strain 16×10^{-6} strain 1×10^{-6}
Pt-RTD temperature mease Applicable Pt-RTD Strain measurement (Higf Bridge excitation Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Bridge resistance Initial value memory range Temperature coefficient of accuracy Secular change of accuracy Measuring range and resolution Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Initial value memory range Accuracy (23°C±5°C) Strain measurement in high re Bridge excitation Initial value memory range Temperature coefficient of accuracy	urement Pt100 (500μA constant JIS C1604:2013, IEC60 -accuracy mode) DC2V 24ms(50Hz) ±160000×10 ⁶ strain ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/°C ±0.02%rdg/9ear Measuring range ±40000×10 ⁶ strain ±160000×10 ⁶ strain ±0.05%rdg+1digit) solution mode (Full bridge of DC6mA 24ms(50Hz) 350Ω ±160000×10 ⁶ strain ±0.02%rdg/year Measuring range ±40000×10 ⁶ strain ±0.02%rdg/9ear Measuring range ±40000×10 ⁶ strain ±0.002%rdg/°C ±0.005%rdg+1digit) solution mode (Full bridge of DC5V 24ms(50Hz) ±16000.0×10 ⁶ strain ±0.002%rdg/°C	Resolution 1×10^{-6} strain 2×10^{-6} strain 4×10^{-6} strain 4×10^{-6} strain 16×10^{-6} strain 16×10^{-6} strain 16×10^{-6} strain 2×10^{-6} strain 2×10^{-6} strain 1×1

			Me	asuring range	Resolution		
Mass	:		± 40	$\pm 4000.0 \times 10^{-6}$ strain 0.1×1			
resol	suring range a ution	and	± 80	$\pm 8000.0 \times 10^{\circ}$ strain $0.2 \times 10^{\circ}$ strain $0.4 \times 10^{\circ}$ strain			
			± 320	±32000.0×10 ⁶ strain 0.8×10 ⁶ stra			
			±640	00.0×10 ⁻⁶ strain	1.6×10 ⁻⁶ strain		
Accu	ıracy(23℃±5	5℃)	±(0.05	%rdg+3digit)			
Strai	n measureme	ent wit	h constar	nt current method	in high resolution		
mode	e (Full bridge	only)	(High-aco	curacy mode)			
Bridg	ge excitation		DC14r	DC14mA 24ms(50Hz)			
Bridg	ge resistance		350Ω	350Ω			
Initial	l value memor	y rang	e ±1600	$\pm 16000.0 \times 10^{-6}$ strain			
Tempe	rature coefficient of	of accura	tcy ±0.002	±0.002%rdg/°C			
Secul	lar change of a	accura	y ±0.02	±0.02%rdg/year			
			Me	asuring range	Resolution		
			± 40	$\pm 4000.0 \times 10^{-6}$ strain 0.1×10 ⁻⁶ strain			
resolution		± 80	\pm 8000.0×10 ⁶ strain 0.2×10 ⁻⁶ strain				
			± 160 ± 320	$\pm 16000.0 \times 10^{\circ}$ strain 0.4×10° strain 0.4×10° strain			
			±640	$\pm 64000.0 \times 10^{-6}$ strain 1.6×10^{-6} strain			
Accuracy(23°C±5°C)			±(0.05	%rdg+3digit)			
DC v	voltage meas	ureme	nt (High-a	(ccuracy mode)			
Initia	l value memo	orv rai	ige				
V1/1		ary rai	+160 /	000m\/			
V 17 1	00		- 100.0				
V1/1	00		±16.00	000V			
Tempe	rature coefficient of	of accur	icy ±0.002	24%rdg/°C			
Secu	lar change of a	accura	cy ±0.024	4%rdg/year			
			Me	asuring range	Resolution		
			±	= 40.000mV	0.001mV		
		V1/1	±	160.000mV	0.002mV 0.004mV		
Meas	suring range		±	:320.000mV	0.008mV		
and r	resolution		±	:640.000mV	0.016mV		
				± 4.0000V + 8.0000V	0.0001V 0.0002V		
		V1/1	00	±16.0000V	0.0004V		
				±32.0000V 0.0008V			
V1/1	Accuracy (23)	։ °C+5°	(0.05)	wrdg+3digit)	0.00101		
14.40		<u>~_</u> ~					
V I / I U	JU ACCURACY (23	3 C ± 5 0) ±(0.05	%rag+2algit)			
Pt-RTC	D temperature mea	asureme	nt (JIS C1604	:2013, IEC 60751-1:200	8 Pt100) (High-accuracy mode)		
Pt-RTD Appli) temperature mea icable Pt-RT	asureme D	nt (JIS C1604 Pt100	:2013, IEC 60751-1:200	8 Pt100) (High-accuracy mode)		
Pt-RTD Appli Meas) temperature mea icable Pt-RT suring methoo	asureme D d	nt (JIS C1604 Pt100 3-wire	:2013, IEC 60751-1:200	8 Pt100) (High-accuracy mode)		
Pt-RTD Appli Meas Linea) temperature mea icable Pt-RT suring methoe arization	asureme D d	nt (JIS C1604 Pt100 3-wire Digital	:2013, IEC 60751-1:200 (Pt3W) processing	8 Pt100) (High-accuracy mode)		
Pt-RTD Appli Meas Linea Tempe	0 temperature mea icable Pt-RT suring method arization rature coefficient of	asureme D d	nt (JIS C1604 Pt100 3-wire Digital	:2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C	18 Pt100) (High-accuracy mode)		
Pt-RTD Appli Meas Linea Tempe Secul) temperature mean icable Pt-RT suring method arization rature coefficient of lar change of a	asureme D d of accura	nt (JIS C1604 Pt100 3-wire Digital ncy ±0.002 cy ±0.05	:2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year	18 Pt100) (High-accuracy mode)		
Pt-RTE Appli Meas Linea Tempe Secul Meas) temperature mea icable Pt-RT suring method arization rature coefficient of lar change of a suring range	asureme D d of accura	nt (JIS C1604 Pt100 3-wire Digital icy ±0.002 cy ±0.059 -200~	:2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C	18 Pt100) (High-accuracy mode)		
Pt-RTE Appli Meas Linea Tempe Secul Meas Reso	D temperature mean icable Pt-RT suring method arization rature coefficient of lar change of a suring range plution	asureme D d of accura accura	tt (JIS C1604 Pt100 3-wire Digital kcy ±0.002 cy ±0.05 -200~ 0.1°C	:2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C	18 Pt100) (High-accuracy mode)		
Pt-RTE Appli Meas Linea Tempe Secul Meas Reso Accu) temperature mean icable Pt-RTI suring methon arization rature coefficient (lar change of a suring range plution uracy (23°C±5	asureme D d of accura accura	tt (JIS C1604 Pt100 3-wire Digital tcy ±0.005 -200~ 0.1℃ ±(0.05	:2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C :%rdg+0.3°C)	18 Pt100) (High-accuracy mode)		
Pt-RTE Appli Meas Linea Secul Meas Reso Accu	D temperature meas icable Pt-RTI suring method arization rature coefficient of lar change of a suring range sulution uracy (23°C±8	asureme D d of accurra accura 5°C) ure mea	tt (JIS C1604 Pt100 3-wire Digital tcy ±0.002 cy ±0.05 -200~ 0.1°C ±(0.05 urement (JIS	:2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C %rdg+0.3°C) C1602:2015, IEC 6058	98 Pt100) (High-accuracy mode) 4-1:2013) (High-accuracy mode)		
Pt-RTE Appli Meas Linea Secul Meas Reso Accu Thermo	D temperature meas icable Pt-RTI suring method arization rature coefficient of lar change of a suring range ulution uracy (23°C±5 cocuple temperatu cable thermoc	asureme D d of accura accura 5°C) ure meas ouple	tt (JIS C1604 Pt100 3-wire Digital cy ±0.002 cy ±0.05 -200~ 0.1°C ±(0.05 trement (JIS T,K,J,B,S	*2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C i%rdg+0.3°C) C1602:2015, IEC 6058 5,R,E,N	98 Pt100) (High-accuracy mode) 4-1:2013) (High-accuracy mode)		
Pt-RTD Appli Meas Linea Secul Meas Reso Accu Thermo Appli Linea	D temperature meas icable Pt-RTI suring method arization rature coefficient of lar change of a suring range ulution uracy (23°±5 coouple temperatu cable thermoc arization	asureme D d of accurra accura 5°C) ure meas ouple	tt (JIS C1604 Pt100 3-wire Digital cy ±0.005 ±0.05 ±(0.05 ±(0.05 urement (JIS T,K,J,B,S Digital pt	2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C i%rdg+0.3°C) C1602:2015, IEC 6058 5,R,E,N rocessing	 18 Pt100) (High-accuracy mode) 4-1:2013) (High-accuracy mode) 23°C ± 5°C) 		
Pt-RTD Appli Meas Linea Secul Meas Reso Accu Thermo Appli Linea Type	D temperature meas icable Pt-RTI suring method arization rature coefficient of suring range of a suring range occuple temperatu cable thermoc arization Measuring r	asureme D d of accura accura 5°C) ure meas ouple ange	tt (JIS C1604 Pt100 3-wire Digital cy ±0.005 -200~ 0.1°C ±(0.05 urement (JIS T,K,J,B,S Digital pr Resolution	2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C 5%rdg+0.3°C) C1602:2015, IEC 6058 S,R,E,N rocessing Accurace (External)	 № Pt100) (High-accuracy mode) 4-1:2013) (High-accuracy mode) cy (23°C±5°C) (Internal BJC) 		
Pt-RTE Appli Meas Linea Secul Meas Reso Accu Thermo Appli Linea	0 temperature meas icable Pt-RTI suring method arization rature coefficient of suring range of a suring range occuple temperatu cable thermoc arization Measuring r - 250 ~ - 20	asureme D d of accura 5°C) ure meas ouple ange 00°C	tt (JIS C1604 Pt100 3-wire Digital cy ±0.005 -200~ 0.1°C ±(0.05 urement (JIS T,K,J,B,S Digital pt Resolution 0.1°C	2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C 6%rdg+0.3°C) C1602:2015, IEC 6058 6,R,E,N rocessing Accurac (External) ±(0,19%rdg+0.5°	 18 Pt100) (High-accuracy mode) 4-1:2013) (High-accuracy mode) cy (23°C±5°C) (Internal RJC) c) ±(0.19%rdg+3.8°C) 		
Pt-RTE Appli Meas Linea Tempe Secul Meas Reso Accu Thermo Appli Linea Type) temperature meas icable Pt-RTI suring method arization rature coefficient of suring range of a suring range occuple temperatu cable thermoc arization Measuring r - 250 ~ - 21 - 200 ~ - 1	asureme D d of accura accura 5°C) ure meas ouple ange 00°C	tt (JIS C1604 Pt100 3-wire Digital cy ±0.005 -200~ 0.1°C ±(0.05 urement (JIS T,K,J,B,S Digital pr Resolution 0.1°C 0.1°C	2013, IEC 60751-1:200 (Pt3W) processing 20%rdg/°C %rdg/year +850°C 6,R,E,N rocessing Accurac (External) ±(0.19%rdg+0.2° ±(0.09%rdg+0.2°)	18 Pt100) (High-accuracy mode) 4-1:2013) (High-accuracy mode) cy (23°C±5°C) (Internal RJC) C) ±(0.19%rdg+3.8°C) C) ±(0.29%rdg+1.6°C)		
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Note: Accuracy of sensor is not included. Thermocouple B does not use reference junction.

External dimensions



Related products

Fast connecting terminal SB-OT1B

These terminals enable fast connection and disconnection of leadwires. They are mounted on the input terminal of a switching box. (One set contains five terminals.)

Connection cable CR-89XX

These are connection cables used for the connection between measurement box EX-50H, measurement unit EU-10H and data logger TS-960, or between two measurement boxes.





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Approval Certificate **ISO9001** Design and manufacture of strain gauges, strain measuring equipment and transducers



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