



GL860

Isolated Multi-CH data Logger

GRAPHTEC

Flexible Options with 4 Terminals













Withstand high-voltage / High-precision terminal **B-565**

30CH screw less input terminal

B-563SL-30



20CH screw input terminal **B-563**



20CH screw less input terminal **B-563SL**

NEW SERVICE G-REMOTE

- Remote Control Service
 - Remotely control GL860 connected to the Internet
- Data Storage Service
 - Store GL series recorded data on a server
 - *Additional charge for use

^{*}Terminals are not included. Please purchase separately.



6 NEW FEATURES

Faster sampling interval

Recording options

- Twice as fast as the previous models!

Maximum Sampling Interval of max. 5ms (*settings required)

By limiting the number of channels, data can be recorded in max. 5ms.

Sampling inte	erval	5ms	10ms	20ms	50ms	100ms	250ms	0.5s	1s
Number of ch	nannels	1	2	4	10	20	50	100	200
Measuring	Voltage	•	•	•	•	•	•	•	
	Temp.				•	•	•	•	

- Memory Loop Function
 - Additional Relay Capture Function for Longer Recordings
- **CH Copy Function**
 - Easy setup by copying the amp settings for the target channel
- Alarm History Function
 - Easily search the history of abnormal event dates and times
- Enhanced Inter-CH Operation
 - Various calculating options than previous models
- Support Modbus
 - Communication function with sequencer by Modbus TCP

USER FRIENDLY FEATURES

- Long time recording is available
 - Built-in 8GB Memory or SD Card

(data size: 2GB)

*Sampling interval is limited by the number of channels in use.

Sampling interval	5ms	10ms	50ms	100ms	200ms	500ms	1s	10s
GBD format	15days 2	4days 4	7days 5	4days	108days	270days	366+ days	366+ days
CSV format	1day	3days	8days	11days	22days	55days	111days	366+ days

DATA COMMUNICATION









*B-568 (optional item) is required

PC SOFTWARE

- **GL-Connection**
 - an integrated application software for the GL series.
- GL28-APS
 - The application software to connect GL series and PC.



GL860 MAIN UNIT SPECIFICATIONS

Number of analog inputs External input (*1) Number of channels (*1) Pulse input Revolutions mode, Counts mode, Inst. mode Maximum number of count: 50kC/sampling External output (*1) Alarm output: 4ch Sampling interval Scaling function Maximum 200ch available for 1 terminal(20ch/30ch) or external Sample Input (*1) Revolutions mode, Counts mode, Inst. mode Maximum input frequency: 50kHz Maximum number of count: 50kC/sampling External output (*1) Alarm output: 4ch Sms-1h (5ms-50ms: voltage only, limited number of CH), External Scaling function 4 points can be set for each channel The temperature range scaling function is available.	ts 1ch			
(*1) Logic / Pulse (4 channel) Pulse input Revolutions mode, Counts mode, Inst. mode Maximum input frequency: 50kHz Maximum number of count: 50kC/sampling External output (*1) Sampling interval Scaling function Alarm output: 4ch Scaling function 4 points can be set for each channel The temperature range scaling function is available.				
Pulse input Revolutions mode, Counts mode, Inst. mode Maximum input frequency: 50kHz Maximum number of count: 50kC/sampling External output (*1) Alarm output: 4ch Sampling interval 5ms-1h (5ms-50ms: voltage only, limited number of CH), External counts can be set for each channel The temperature range scaling function is available.				
Maximum input frequency: 50kHz Maximum number of count: 50kC/sampling External output (*1) Alarm output: 4ch Sampling interval 5ms-1h (5ms-50ms: voltage only, limited number of CH), External Scaling function 4 points can be set for each channel The temperature range scaling function is available.				
Maximum number of count: 50kC/sampling External output (*1) Sampling interval Scaling function Alarm output: 4ch 5ms-1h (5ms-50ms: voltage only, limited number of CH), External output: 4 points can be set for each channel The temperature range scaling function is available.				
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Scaling function 4 points can be set for each channel The temperature range scaling function is available.	val aignal			
The temperature range scaling function is available.	iai signai			
	The temperature range scaling function is available.			
A/D converter $\Delta\Sigma$ method, 16Bit (Effective resolution: About 1/40000 of the	$\Delta\Sigma$ method, 16Bit (Effective resolution: About 1/40000 of the +/- range)			
PC I/F Ethernet (10BASE-T/100BASE-TX)	,			
USB2.0 (Hi-SPEED) ,Wireless LAN (Option)	USB2.0 (Hi-SPEED) ,Wireless LAN (Option)			
Storage media Storage Built-in memory: approx. 8GB, SD card slot: 1				
(*2) Data format GBD, CSV				
Recording mode Default, Ring, Relay	, 0, ,			
Other functions Calculation function, Trigger, Alarm function, Data backup fu	Calculation function, Trigger, Alarm function, Data backup function (*3)			
Display 7-inch TFT color LCD (WVGA: 800 x 480 dots)				
Operating environment 0-45\(\times\) , 5-85\(\times\)RH				
(including terminals) (0 to 40°C when operated in batteries/15 to 35°C when a battery is	charging)			
Power supply AC adapter AC100-240V / 50-60Hz				
DC input DC8.5-24V(Option: B-514 is required)				
Battery pack DC7,2V(2875mAh)2 packs can be mounted (Optional item)				
Power consumption 38VA or lower (when using the AC adapter, LCD ON, recharging battery,	38VA or lower (when using the AC adapter, LCD ON, recharging battery, AC100V)			
Dimentions [WxDxH] (approx.) (*Refer to terminal specifications)	(*Refer to terminal specifications)			
Weight (approx.) (*Refer to terminal specifications)	(*Refer to terminal specifications)			
Vibration resistance Equivalent to Automobile parts Type 1 Class A				

OPTIONS

Item	Model	Description
GL wireless LAN unit	B-568	Standard: IEEE802.11b / g / n
		communication distance:
		approx. 40m(Depends on the situation
Withstand high-voltage high-precision terminal	B-565	Analog input terminal
30CH SCREW LESS INPUT TERMINAL	B-563SL-30	Analog input terminal
20CH SCREW INPUT TERMINAL	B-563	Analog input terminal
20CH SCREW LESS INPUT TERMINAL	B-563SL	Analog input terminal
Base unit for input terminal	B-566	Used for attaching each input terminal
Input terminal cover	B-588	Mountable each analog terminal. Not
		mountable when B-551 Shunt resistor used
Connection cable for extension terminal (50cm)	B-567-05	Connection cable (50cm)
Connection cable for extension terminal (2m)	B-567-20	Connection cable (2m)
Battery Pack	B-569 / B-573	7.2/2900mAh / 7.2V/2875mAh (2packs)
Bracket for DIN rail for main body	B-570	made-to-order
Bracket for DIN rail (for B-566)	B-540	made-to-order
Input/Output cable for GL series	B-513	2 m long (no clip on end of cable)
DC drive cable	B-514	2 m long (no clip on end of cable)
Humidity sensor(*4)	B-530	3 m long (with power plug)
midi LOGGER storage case(*5)	B-581	Support RoHS directive
Ultra-fine K type thermocouple	ST-55K-TC-1.2M	tip wire φ0.127, 0.5X0.7X200mm,
		relaying 1m, -40 -260°C, class2, 5 units
Shunt resistor 250Ω (*7)	B-551-10	±250 Ω (0.1%), Rated power of 1 W
		Maximum operating voltage15.8V
AC adapter for GL860	ACADP-20	Adapter for maintenance



TERMINAL SPECIFICATIONS

*When using B-565 with other terminals, the lower withstand voltage will be applied.

	Withstand high-voltage high-precision terminal	30CH SCREW LESS INPUT TERMINAL	20CH SCREW INPUT TERMINAL	20CH SCREW LESS INPUT TERMINAL		
	(B-565)	(B-563SL-30)	(B-563)	(B-563SL)		
Number of CHs	20ch/per terminal	30ch/per terminal	20ch/per terminal			
Measuring Voltage	20mV-100V					
Temp.	Thermocouple K·J·E·T·R·S·B·N·C (old: W(WRe5-26))					
	RTD (*three-wire system only)	(*RTD cannot be connected)				
	Pt100+JPt100+Pt1000(IEC751)					
Humidity	0-100% (Optional humidity sensor B-530 is required)					
Max. input voltage	20mV - 2 V Range: 60Vp-p (between input terminal an	d (+) / (-) terminal), 5V -100 V range: 1	10Vp-p (between input terminal and (+	+) / (-) terminal)		
	600Vp-p (between input terminal and input terminal)	60Vp-p (between input terminal and	input terminal)			
	300Vp-p (between input terminal and GND)	60Vp-p (between input terminal and	GND)			
Volt. measurement	±(0.05%ofF.S.+10μV)	±0.1%ofF.S.				
accuracy						
Dimentions (approx.)	240x166x52.5mm (exclude protrusion)	240x158x52.5mm (exclude protrusio	n)			
Weight (approx.)	1035g (without AC adapter & battery)	1010g (without AC adapter & battery)			

^{*}Weight and dimensions are the values including GL860.

REMOTE CONTROL SERVICE (G-REMOTE)

(*Additional charge for use)

Item	Description
Supported OS(*6)	Windows11/10
Supported WEB browser	Google Chrome (recommended), Microsoft Edge, Firefox
	(*Internet browser supporting HTML5)
Service content	<remote control="" service=""></remote>
	Easy remote control and confirmation of measurement data
	from G-REMOTE on a browser via an Internet connection
	<pre><data service="" storage=""></data></pre>
	Storing data on Graphtec cloud servers via Internet connection
	*For more information about product, please check the web site.

SOFTWARE FOR PC

Item	Description						
Supported OS(*6)	Windows11/10						
GL28-APS	Allows for main unit settings and data recording,						
	storage, and playback from a PC						
	Supported models: GL860/GL260/GL840/GL240						
	Connectable units / channels: Max. 10 units / 1,000ch						
GL-Connection	GL Series Integration Software						
	Allows for main unit settings and data recording,						
	storage, and playback from a PC						
	Supported models: GL7000 Plus/GL2000/GL980/						
	GL860/GL840/GL260/GL240/GLT400						
	Connectable units: 20 / Max. 2000ch						

CALIBRATION-RELATED DOCUMENTS (PRODUCTION DATA)

Item	Code	Description
TEST CERTIFICATE	B-TEST	*The data of documents ordered at the time of product purchase
TRACEABILITY CHART	B-TRACE	are as of manufacture. Additional fee will be required to order
CALIBRATION CERTIFICATE	B-CAL	documents with the latest data.

^{*}Please visit calibration services section of our website for details.

: Input/Output cable for GL (option B-513) is required.

*2 *3 *4 *5 Recorded in 2GB per file, SD cards available, Supported SDHC, up to approx. 32GB memory

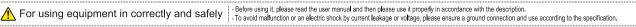
: If the ring setting and external sampling function is ON, the backup function is not available. : Available temperature range: -25°C~+80°C (Special order/ 10m, 15m, 20m available)

: Not available in the US area.

OS that are no longer supported by the OS manufacturer are not supported by Graphtec 1 shunt resistor per channel is required.



Due to the possibility of equipment or PC failure, the data files on the instrument will not be guaranteed to be held on the memory.
 Please make a back up of data whenever possible to avoid data loss.
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 Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative.







B-563/B-563SL SPECIFICATIONS

Item		Description					
Number of input channels Standard 20CH screw terminal		20 channels (Up to 200 channels when using with the expansion terminal base) * Between GL860 and terminal and between terminals can be directly connected or with an expansion terminal connection cable (sold separately)					
	Standard 20CH screwless terminal	* Between GL860	to 200 channels when using w) and terminal and between te inal connection cable (sold se	erminals can be	sion terminal base) e directly connected or with an		
Input terminal type	Standard 20CH screw terminal	M3 screw-type te	rminals (Rectangular flat was	her)			
	Standard 20CH screwless terminal	Screwless terminal					
Input method		Photo MOS relay All channels isola	scanning system ted, balanced input				
Scan speed		5 ms/1 ch maxim	um				
Measurement rang	ges	Voltage: 20, 50, 1	.00, 200, 500 mV, 1, 2, 5, 10, 2	20, 50, 100 V, 1	1-5 V F.S.		
		Temperature Thermocouples: K, J, E, T, R, S, B, N, C (W: WRe5-26) Temperature range: 100°C, 500°C, 2000°C (In the case of Fahrenheit: 150°F, 750°F, 3000°F)					
		Humidity: 0 to 100% (voltage 0 to 1 V scaling conversion) fixed					
Measurement accuracy (23°C ±5°C) • When 30 minutes or more have		Voltage: 0.1% of F Temperature • Thermocouple	F.S.				
elapsed after povSampling 1 s/10	ver was switched on	Thermocouple	Measurement Temperature	e Range (°C)	Measurement Accuracy		
• Filter ON (10) • GND connected		R/S	$0 \le TS \le 10$ $100 < TS \le 3$ $R:300 < TS \le 10$ $S:300 < TS \le 10$	00 °C	±5.2°C ±3.0°C ± (0.05% of rdg +2.0°C) ± (0.05% of rdg +2.0°C)		
		В	400 ≤ TS ≤ 6 600 < TS ≤ 1		±3.5 °C ± (0.05% of rdg +2.0 °C)		
		К	-200 ≤ TS ≤ -1 -100 < TS ≤ 1.		± (0.05% of rdg +2.0 °C) ± (0.05% of rdg +1.0 °C)		
		E	-200 ≤ TS ≤ -1 -100 < TS ≤ 8		± (0.05% of rdg +2.0 °C) ± (0.05% of rdg +1.0 °C)		
		Т	-200 ≤ TS ≤ -1 -100 < TS ≤ 4		± (0.1% of rdg +1.5 °C) ± (0.1% of rdg +0.5 °C)		
		J	-200 ≤ TS ≤ -1 -100 < TS ≤ 1 100 < TS ≤ 1	00 °C	±2.7°C ±1.7°C ± (0.05% of rdg +1.0°C)		
		N	-200 ≤ TS < 0 0 ≤ TS ≤ 1.		± (0.1% of rdg +2.0°C) ± (0.1% of rdg +1.0°C)		
		C (W)	0 ≤ TS ≤ 2	000 °C	± (0.1% of rdg +1.5°C)		
		Reference conta	ct compensation accuracy		±0 .5 °C		
		* Thermocouple diameters T, K: 0.32 φ, others: 0.65 φ					





B-563/B-563SL SPECIFICATIONS

Item	Description					
	• Temperature range					
	Туре	Temperature range	Resolution	Measurement Range		
	R/S	100°C F.S.	0.01°C	0 to 100°C		
		500°C F.S.	0.05°C	0 to 500°C		
		2000°C F.S.	0.1°C	R: 0 to 1600°C		
				S: 0 to 1760°C		
	В	500°C F.S.	0.05°C	400 to 500°C		
		2000°C F.S.	0.01°C	500 to 1820°C		
	K/E/T/J/N	100°C F.S.	0.01°C	-100 to 100°C		
		500°C F.S.	0.05°C	K/E/J/N: -200 to 500°C		
				T: -200 to 400°C		
		2000°C F.S.	0.1°C	K: -200 to 1370°C		
				E: -200 to 800°C		
		0	С	T: -200 to 400°C		
				J: -200 to 1100°C		
				N: -200 to 2000°C		
	C (W)	100°C F.S.	0.01°C	0 to 100°C		
		500°C F.S.	0.05°C	0 to 500°C		
		2000°C F.S.	0.1°C	0 to 2000°C		
	* Measurement	erature range.				
Reference contact compensation accuracy	Internal/External switching					
A/D converter	Method: ΔΣ method Resolution: 16-bit (Effective resolution: About 1/40000 of the +/- range)					
Temperature coefficient	Gain: 0.01% of F.S./°C Zero: 0.02% of F.S./°C * Zero occurs at the sampling of 5, 10, 20, and 50 ms.					
Input resistance	1MΩ ±5%					
Allowable signal source resistance	Within 300Ω					
Maximum permissible input voltage	Between +/- terminals: 20mV to 2V range (60Vp-p) 5V to 100V range (110Vp-p) Between input terminal/input terminal: 60 Vp-p Between input terminal/GND: 60 Vp-p					
Withstand voltage		erminal/input termin erminal/GND: 350 Vp	al: 350 Vp-p 1 minute p-p 1 minute	,		
Insulation resistance	Between input t	erminal/GND: 50MΩ	or more (at 500 VDC)			
Common mode rejection ratio	90 dB or more (50/60 Hz; signal sour	ce 300Ω or less)			
Noise		with +/- terminals sh				
Filter	Off, 2, 5, 10, 20, Filter operation The average valu	40 is on a moving averague of the number of se cerval exceeds 30 sec	ge basis. et samples is used.	lue of data obtained in a sub-		





B-563SL-30 SPECIFICATIONS

Item		Description				
Number of input channels	30 channels (Up to 200 channels when using with the expansion terminal base) * Between GL860 and terminal and between terminals can be directly connected or with an expansion terminal connection cable (sold separately)					
Input terminal type	Screwless termin	al				
Input method	Photo MOS relay All channels isola	scanning system ted, balanced input				
Scan speed	5 ms/1 ch maxim	um				
Measurement ranges	Voltage: 20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100 V, 1-5 V F.S.					
	Temperature Thermocouples: K, J, E, T, R, S, B, N, C (W: WRe5-26) Temperature range: 100°C, 500°C, 2000°C (In the case of Fahrenheit: 150°F, 750°F, 3000°F) Humidity: 0 to 100% (voltage 0 to 1 V scaling conversion) fixed					
Measurement accuracy (23°C ±5°C) • When 30 minutes or more have	Voltage: 0.1% of F.S. Temperature • Thermocouple					
elapsed after power was switched on	Thermocouple	Measurement Temperature Range (°C)	Measurement Accuracy			
• Sampling 2 s/30 ch • Filter ON (10)	R/S	0 ≤ TS ≤ 100°C	±5.2°C			
GND connected		100 < TS ≤ 300°C R:300 < TS ≤ 1600°C	±3.0°C ± (0.05% of rdg +2.0°C)			
		S:300 < TS ≤ 1760°C	± (0.05% of rdg +2.0°C)			
	В	400 ≤ TS ≤ 600°C	±3.5°C			
	17	600 < TS ≤ 1820°C	± (0.05% of rdg +2.0°C)			
	K	-200 ≤ TS ≤ -100°C -100 < TS ≤ 1370°C	± (0.05% of rdg +2.0°C) ± (0.05% of rdg +1.0°C)			
	E	-200 ≤ TS ≤ -100°C	± (0.05% of rdg +2.0°C)			
		-100 < TS ≤ 800°C	± (0.05% of rdg +1.0°C)			
	Т	-200 ≤ TS ≤ -100°C -100 < TS ≤ 400°C	± (0.1% of rdg +1.5°C) ± (0.1% of rdg +0.5°C)			
	J	-200 ≤ TS ≤ -100°C	±2.7°C			
		-100 < TS ≤ 100°C 100 < TS ≤ 1100°C	±1.7°C ± (0.05% of rdg +1.0°C)			
	N	-200 ≤ TS < 0°C	± (0.1% of rdg +2.0°C)			
		0 ≤ TS ≤ 1300°C	± (0.1% of rdg +1.0°C)			
	C (W)	0 ≤ TS ≤ 2000°C	± (0.1% of rdg +1.5°C)			
	Reference conta	ct compensation accuracy	±0.5°C			
	* Thermocouple diameters T, K: 0.32 φ, others: 0.65 φ					





B-563SL-30 SPECIFICATIONS

Item	Description					
	Temperature ra	ange				
	Туре	Temperature range	Resolution	Measurement Range		
	R/S	100°C F.S.	0.01°C	0 to 100°C		
		500°C F.S.	0.05°C	0 to 500°C		
		2000°C F.S.	0.1°C	R: 0 to 1600°C		
				S:0 to 1760°C		
	В	500°C F.S.	0.05°C	400 to 500°C		
		2000°C F.S.	0.01°C	500 to 1820°C		
	K/E/T/J/N	100°C F.S.	0.01°C	-100 to 100°C		
		500°C F.S.	0.05°C	K/E/J/N: -200 to 500°C		
				T: -200 to 400°C		
		2000°C F.S.	0.1°C	K: -200 to 1370°C		
				E: -200 to 800°C		
				T: -200 to 400°C		
				J: -200 to 1100°C		
				N: -200 to 2000°C		
	C (W)	100°C F.S.	0.01°C	0 to 100°C		
		500°C F.S.	0.05°C	0 to 500°C		
		2000°C F.S.	0.1°C	0 to 2000°C		
	* Measurement accuracy does not change due to the temperature range.					
Reference contact compensation accuracy	Internal/External switching					
A/D converter	Method: ΔΣ method Resolution: 16-bit (Effective resolution: About 1/40000 of the +/– range)					
Temperature coefficient	Gain: 0.01% of F Zero: 0.02% of F * Zero occurs at		, 20, and 50 ms.			
Input resistance	1MΩ ±5%					
Allowable signal source resistance	Within 300Ω					
Maximum permissible input voltage	Between +/- terminals: 20mV to 2V range (60Vp-p) 5V to 100V range (110Vp-p) Between input terminal/input terminal: 60 Vp-p Between input terminal/GND: 60 Vp-p					
Withstand voltage		erminal/input terminal erminal/GND: 350 Vp-				
Insulation resistance	Between input to	erminal/GND: 50MΩ o	or more (at 500 VDC)			
Common mode rejection ratio	90 dB or more (5	50/60 Hz; signal sourc	ce 300Ω or less)			
Noise	<u> </u>	vith +/– terminals sho	· · · · · · · · · · · · · · · · · · ·			
Filter	Off, 2, 5, 10, 20, Filter operation i The average val	40 s on a moving averague of the number of serval exceeds 30 sec	ge basis. et samples is used.	ue of data obtained in a sub-		



B-565 SPECIFICATIONS

Item	Description						
Number of input channels	20 channels (Up to 200 channels when using with the expansion terminal base) * Between GL860 and terminal and between terminals can be directly connected or with an expansion terminal connection cable (sold separately)						
Input terminal type	M3 screw-type terminals (Rectangular flat washer)						
Input method	Photo MOS relay scanning system All channels isolated, balanced input * Terminal b to be used to connect the Resistance bulb is shorted within all channels.						
Scan speed	5 ms/1 ch maximum						
Measurement ranges	Voltage: 20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100 V, 1-5 V F.S.						
	Temperature Thermocouples: K, J, E, T, R, S, B, N, C (W: WRe5-26) Resistance bulb: Pt100, JPt100, Pt1000 (IEC751) Temperature range: 100°C, 500°C, 2000°C (In the case of Fahrenheit: 150°F, 750°F, 3000°F)						
	Humidity: 0 to 100% (voltage 0 to 1 V scaling conversion) fixed						
Measurement accuracy (23°C ±5°C) • When 30 minutes or more have	Voltage: ± (0.05% of F.S. + 10μV) Temperature • Thermocouple						
elapsed after power was switched on • Sampling 1 s/10 ch	Thermocouple	Measurement Temperature R	Range (°C)	Meas	urement Accuracy		
• Filter ON (10) • GND connected	R/S	$0 \le TS \le 100^{\circ}C$ $\pm 4.5^{\circ}C$ $100 < TS \le 300^{\circ}C$ $\pm 3.0^{\circ}C$ $\pm 3.0^{\circ}C$ $\pm 2.2^{\circ}C$ $\pm 3.00 < TS \le 1700^{\circ}C$ $\pm 2.2^{\circ}C$					
	В	400 ≤ TS ≤ 600 600 < TS ≤ 182	±3.5°C ±2.5°C				
	К	-200 ≤ TS ≤ -100 -100 < TS ≤ 137	±1.5°C ±0.8°C				
	E	-200 ≤ TS ≤ -100 -100 < TS ≤ 800	±1.0°C ±0.8°C				
	Т	-200 ≤ TS ≤ -100 -100 < TS ≤ 400	±1.5°C ±0.6°C				
	J	-200 ≤ TS ≤ -100°C -100 < TS ≤ 100°C 100 < TS ≤ 1100°C		±1.0°C ±0.8°C ±0.6°C			
	N	-200 ≤ TS < 0°C 0 ≤ TS ≤ 1300°C		±2.2°C ±1.0°C			
	C (W)	0 ≤ TS ≤ 2000°C		±1.8°C			
	Reference contact compensation accuracy ±0.3°C						
	* Thermocouple diameters T, K: 0.32 φ, others: 0.65 φ						
	Resistance bulb Measurement Temperature August Augu						
	Туре	Range (°C)	Applied of	current	Measurement		
	Pt100	-200 ≤ TS ≤ 100°C	1mA		±0.6°C		
		100 < TS ≤ 500°C			±0.8°C		
		500 < TS ≤ 850°C			±1.0°C		
	JPt100	-200 ≤ TS ≤ 100°C			±0.6°C		
		100 < TS ≤ 500°C			±0.8°C		
	Pt1000	-200 ≤ TS ≤ 100°C 0.3mA			±0.6°C		
	1	100 < TS ≤ 500°C	I .	±0.8°C			



B-565 SPECIFICATIONS

Item	Description						
	Temperature range						
	Туре	Temperature range	Resolution	Measurement Range			
	R/S	100°C F.S.	0.01°C	0 to 100°C			
		500°C F.S.	0.05°C	0 to 500°C			
	B K/E/T/J/N	2000°C F.S.	0.1°C	R: 0 to 1600°C			
				S: 0 to 1760°C			
		500°C F.S.	0.05°C	400 to 500°C			
		2000°C F.S.	0.01°C	500 to 1820°C			
		100°C F.S.	0.01°C	-100 to 100°C			
		500°C F.S.	0.05°C	K/E/J/N: -200 to 500°C			
				T: -200 to 400°C			
		2000°C F.S.	0.1°C	K: -200 to 1370°C			
				E: -200 to 800°C			
				T: -200 to 400°C			
				J: -200 to 1100°C			
				N: -200 to 2000°C			
	C (W)	100°C F.S.	0.01°C	0 to 100°C			
		500°C F.S.	0.05°C	0 to 500°C			
		2000°C F.S.	0.1°C	0 to 2000°C			
	Pt	100°C F.S.	0.01°C	-100 to 100°C			
		500°C F.S.	0.05°C	-200 to 500°C			
		2000°C F.S.	0.1°C	Pt100: -200 to 850°C			
				JPt100/Pt1000: -200 to 500°C			
	* Measurement accuracy does not change due to the temperature range.						
Reference contact compensation accuracy	Internal/External switching						
A/D converter	Method: ΔΣ method Resolution: 16-bit (Effective resolution: About 1/40000 of the +/– range)						
Temperature coefficient	Gain: 0.01% of F.S./°C Zero: 0.02% of F.S./°C * Zero occurs at the sampling of 5, 10, 20, and 50 ms.						
Input resistance	$1M\Omega \pm 5\%$						
Allowable signal source resistance	Within 100Ω						
Maximum permissible input voltage	Between +/- terminals: 20mV to 2V range (60Vp-p)						
Maximum permissible input voltage	5V to 100V range (110Vp-p) Between input terminal/input terminal: 600 Vp-p						
NACH C. I. II	Between input terminal/GND: 300 Vp-p						
Withstand voltage	Between input terminal/input terminal: 600 Vp-p Between input terminal/GND: 2300 Vp-p 1 minute						
Insulation resistance	Between input terminal/GND: 50MΩ or more (at 500 VDC)						
Common mode rejection ratio	90 dB or more (50/60 Hz; signal source 300Ω or less)						
Noise	48 dB or more (with +/– terminals shorted)						
Filter	Off, 2, 5, 10, 20, 40 Filter operation is on a moving average basis. The average value of the number of set samples is used. If the sample interval exceeds 30 seconds, the average value of data obtained in a subsample (30 seconds) is used.						

LO

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