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Mess- und Prüftechnik. Die Experten.



GLT400 midi Logger Multi-use data logger



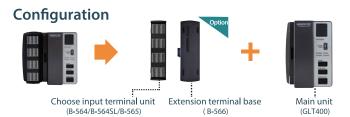


GLT400 MIDI LOGGER

Multi-use data logger

SPECIFICATIONS

- Transferring data to PLC via Modbus/TCP protocol
- DC Power only for -20 to +60 operation
- Supports WEB server, FTP server and FTP client network functions for remote monitoring and controlling.
- High Isolation inputs to ensure signals are not corrupted by noise from other channels
- Connect as a remote terminal unit of GL840



Mount or embed in a system and remote monitoring by PC.

Real time remote monitoring and control via Ethernet, Wireless LAN* and USB (Software is standard accessory)



Bracket for DIN rail is optional (B-540)

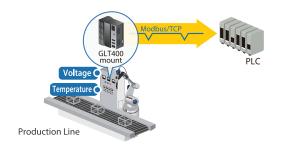
GRAPHTEC



* The illustration above shows GLT400 and Options (B-564SL+B-566) are installed

Modbus/TCP for PLC I/O channels. It can be used as additional I/Os.

Bidirectional comminucation between PLC and GLT400 via Modbus /TCP, Start or stop command can be sent from PLC.



Enable to use as PC hosted data logger

Connection to PC via USB ,LAN and Wireless LAN. Standalone or PC hosted data logger for R&D, Quality and Production



Connect as a remote terminal unit of GL840

Communications via Ethernet or Wireless LAN.* (Expand up to 200 ch (incl.GLT400) per GL840 or Up to 5 units of GLT400 can be connected to GL840 host) Setup and control from GL840 and captured data can be stored on GL840 which is measured from GLT400.



* Requires optional B-568 When using multiple devices, use Router by WPS



SELECTABLE TERMINAL FOR DIFFERENT APPLICATIONS

Choose a terminal for your application needs depending on accuracy, isolation or connection type

Easy connection with push-in wire terminal (ϕ 0.3 to 1.3mm)

isolation or	connec	71		Lusy connection with push in wife term	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Standard terminal (B-564)	Screwless terminal (B-564-SL)	Withstand high-voltage high-precision terminal(B-565)	J
Number of analo	og channe l s	20ch/terminal			
Input terminal t	type	M3 screw	Screwless	M3 screw	
Measure range	Voltage	20mV to 100V			Option
	Temperature	Thermocouple:K • J • E • T • R • S • B • N • C (\	VRe5-26)		Terminal Base Cover(B-588)
		RTD:Pt100 • JPt100 • Pt1000 (IEC751) *3 wire o	nly		Compatible with all the terminals
	Humidity	0 to 100 % RH - using the humidity sensor (opti-	on B-530)		*Except using with shunt resistor (B-551
Maximum input	t vo l tage	20mV-2V Range:60Vp-p(Input between (+)/(-) te	rminal) ,5V-100V Range:110Vp-p(Input between	(+)/(-) terminal)	
		60Vp-p(Channel/Channel)		600Vp-p(Channel/Channel)	
		60Vp-p(Channel/GND)		300Vp-p(Channel/GND)	
Accuracy		±0.1%of F.S.		±(0.05%of F.S.+10μV)	B-588
Operating temp	perature	-20 to 60 °C (When used with GLT400)		0 to +45°C (When used with GLT400)	

^{*} Terminals (B-564B.-564SL.B-565) can be mixed.

EXPANDABLE UP TO 200 CHANNELS

From 20 to 200 channels, the GLT400 is scalable to meet your future needs.





Connection cable (Max.20m for 10pcs)

Cable connection between main body and screw terminal or screwless connection types







Configuration of direct connection

	20ch	40ch	60ch	80ch	100ch	120ch	140ch	160ch	180ch	200ch
GLT400 main unit	1	1	1	1	1	1	1	1	1	1
Terminal base	1	2	3	4	5	6	7	8	9	10
Input terminal	1	2	3	4	5	6	7	8	9	10

^{*}Use the connection cable for extension terminal to the device, as you require.

LONG TERM RECORDING CAPABILITY

The standard features include a Built-in 4GB Flash memory , and SD card slot up to 32 GB to be used as external storage

for recorded data at the same time as transferring the data to a PC.(1 File size is up to 2GB)

<Selectable from 2 types of file format>

- Graphtec Binary Data(GBD)
- CSV Data which can be open by Excel
- Supplied software allows GBD files to be converted to CSV format

Number of channels and sampling interval

Sampling interva	10ms	20ms	50ms	100ms	200ms	500ms	1s	2s	
Number of Channels		1	2	5	10	20	50	100	200
Measuring	Voltage	•	•	•	•	•	•	•	•
	Temperature	-	-	_	•	•	•	•	•



D card cannot be used when the wireless LAN unit is used.
*Max single file size is 2GB. (use Relay mode to extend recording)

Sampling Interval and Capturing time (When all 20 analog channels are being used, File size of captured data is 2GB)

Sampling interval	10ms	50ms	100ms	200ms	500ms	1s	10s
GBD Format	31days	77days	95days	108days	270days	Over365	Over365
CSV Format	3days	11days	16days	21days	54days	109days	Over365

NOTIFY BY ALARM OUTPUT FUNCTION

Alarm level can be set for each channel



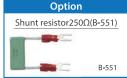
- Alarm Lamp on device
- Email Alarm Notification
- Alarm Output(4 ports)

Output port can be chosen for each channel *Input/Output cable(B-513) is require

4 TO 20MA CURRENT MEASUREMENT

- Shut resistance 250 Ω for current input *
- Installing 250ohm (0.1%) resistor for converting 1 to 5V
- EU scaling function allows diverse measurements by converting voltage to user defined engineering units.

*Not compatible with B-564-SL



USEFUL FUNCTION FOR LONG TERM DATA RECORDING

Ring capture function

The old data is deleted, and most recent data is saved.
 When stop the recording, selected data point is saved.

Relay capture function

 Data is continuously saved with hard disk space or capturing time without losing any data until capturing is stopped.
 The multiple files can be joined on GL-Connection.

DIGITAL I/O PORT AVAILABLE (REQUIRES OPTION (B-513)

Input

- Logic/Pulse inputs (4 channels)
 Pulse mode: Instant/Counts/Revolutions
- Signal input for external trigger or external sampling.

Output

Alarm output(4ch)
 When the input value exceeded the threshold level, output the alarm.
 Output format: Open collector output (5 V, pull-up resistance 10KΩ)

However, if you mix with B-565 with B-564 or B-564-SL, the specification of B-565 will be equivalent as B-564 or B-564-SL



SELECTABLE POWER SOURCE FOR DIFFERENT APPLICATION

AC100 to 240V

- Powered from AC adapter (Standard accessory)
- * Supplied AC adapter does not comply with -20 to 60°C operating environment specification.
- If you need to have the harsh operating environments specification, please contact the Graphtec sales office.

DC 8.5 to 24V

 Powered from DC Drive Cable(Requires option (B-513)

USB PD

 USB PD compliant battery and AC adapter (Supported USB PD 2.0 later)
 *Not supplied

STANDARD ACCESSORY FOR 2 TYPES OF PC SOFTWARE AND WEB BROWSER FUNCTION

Software

GLT400 SETTING APP

Simple Operation S/W

Easily enter settings and monitor measured data from a PC. GLT400 is ideal for use with single unit. GLT400 inherited the setting screen menus from GL series.



Software

GL-Connection

Advanced Function S/W

Max 20 units of GLT400 can be connected.

Display modes come standard with a Y-T View, Digital View, XY View and FFT View. Contains direct Excel functions and a file connection function.

Can convert GBD files to CSV format.



Direct Excel function installed

A function that transfers recorded data directly to specified Excel template file with recording start.

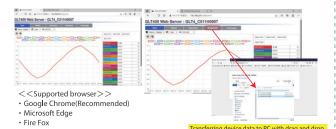
Creates a measured data file when stop recording by utilizing a computational expression and macro in combination.

Useful function

Web browser function

Simple Operation S/W

GLT400 can be controlled, monitored, and data transferred to PC via web browser.



• Available functions on 2 software and web browser

		GLT400 SETTING APP	GL-Connection	WEB browser
Device connection	Wire LAN	•	•	•
	Wireless LAN	•	•	•
	USB	•	•	×
Number of connected units		1 unit	20 units	1 unit
Device setting		•	•	×
Device control (Start/Stop)		•	•	•
Display data	Digital value	•	•	•
	Waveform	×	•	•
	Other	×	•	×
Redisplaying the record	ded file	×	•	×
Connect/ Disconnect du	ring recording	•	×	•
Data transfer to PC		•	•	•
File conversion (CSV)		×	•	×
Supported model		GLT400 only	GL Series *	GL Series *

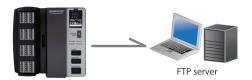
* GL7000 • GL2000 • GL980 • GL840series • GL240 • GLT400(Currently-used models only)

Useful function

FTP backup functions

Remote monitoring & Data sharing

Periodically backing up recording data to FTP server. Backup Interval: 1H• 2H• 6H• 12H• 24H• per file When the upload is succeeded, the file can be deleted automatically from device memory.

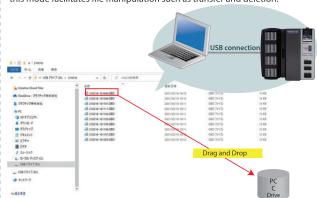


Useful function

USB Drive Mode

Easy&Convenient

Internal memory is recognized as a removal disk, this mode facilitates file manipulation such as transfer and deletion.



SDK (Software Development Kit) is offered for free

Please select the OS that may be used to develop for your software

- USB Driver
 Manual(Product-releated,Communication interface-releated,Data files-releated, ModbusTCP specification)
 Sample Program(C# VisualC++ VisualBasic)
 Interpretation
- LabVIEW VI Digital certificate installation tool



tion's					
	Description				
g terminal units	Up to 10 units (200CH) 10msec to 1 hour (Only voltage:10ms to 50ms with limited channels), External (Able to select at only "STAND ALONE" mode) (*1)				
	Off• On				
	Start/Stop: Off, level value, alarm, external input, specified time,				
	specified day of the week, certain time				
	Combination: Analog, Logic or "AND" / "OR" of pulse				
	Analog judgment: H (↑), L (↓), Window In, Window Out Logic judgment: Pattern				
	Pulse judgment: H (↑), L (↓),Window In, Window Out				
Operation of the alarm	Alarm Lamp on device, Email Alarm Notification, Alarm Output				
output function	(4channels ("REMOTE" 1 channel only)				
Alarm output	Yes				
(hold function)					
Input/	Trigger input (1 ch) or External sampling input (1 ch)				
output types	Logic input (4 ch) or Pulse input (4 ch) (Only for STAND-ALONE mode)				
Input	Input voltage range: 0 to +30 V (single-ended ground input)				
specifications	Input signal: No-voltage contact (a-contact, b-contact, NO, NC), Open collector, Voltage inpu				
· ·	Input threshold voltage: Approx. +2.5 V , Hysteresis: Approx. 0.5 V (+2.5 to +3 V)(*7)				
Alarm	Alarm output: 4CH ("REMOTE" 1 channel only)				
	Output format: Open collector output (5 V, pull-up resistance 10KΩ)				
	<maximum of="" output="" ratings="" transistor=""></maximum>				
	Collector-GND voltage: 50 V,Collector current: 2 A, Collector dissipation: 0.3 W				
Revolutions made	This mode counts the number of pulses per sampling interval, and then converts				
nevolutions mode	them by multiplying the scaling factor to the RPM. Settable the number of pulses per revolution				
	during revolution. Spans: 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 50 M RPM/F.S.				
Caumtamada					
Counts mode	Displays a count of the number of pulses for each sampling interval from the				
	start of measurement. Spans: 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 500 M C/F.S.				
Inst. Mode	Counts the number of pulses for each sampling interval. Resets the count value after each sampling				
	interval. Spans: 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 500 M C/F.S.				
	Maximum input frequency: 50kHz,				
of pulse inputs	Maximum number of count: 50kC/sampling (16-bit counter)				
	Computation types: +,,×,÷(Arithmetic) CH:Input Channel(CH1 to 200)				
EU)	4 points can be set for each channel, Temperature range: 2 points is available				
t	Alphanumerics ,Number of characters; 31				
	Function: A comment can be input for each channel				
Types	Ethernet (10BASE-T/100BASE-TX), USB 2.0, Wireless LAN (Option)				
Functions	Transfer device data to the PC, control device from PC, and connect as a remote terminal unit of GL840				
Ethernet	Web server function,FTP server function,FTP client function,NTP client function,				
functions	DHCP client function, DHCP server function, Modbus/TCP communication				
USB functions	USB drive mode: Transfer and delete the captured files in the internal memory or SD CARD				
Realtime data	10 msec/1 ch maximum				
	* The transfer speed varies depends on the number of channels.				
	Approx. 4GB				
	SD CARD slo: 1(Compatible with SDHC, up to approx. 32GB memory available)				
Maximum size for 1 file					
Memory contents	Setup conditions/ Measured data				
Memory contents Functions	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing				
Memory contents Functions Ring	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000",				
Memory contents Functions	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one.				
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Memory contents Functions Ring capturing Relay capturing File format Functions during capture	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD				
Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup interval	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file				
Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup interval Backup destination	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtee Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP				
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Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup interval Backup destination Data format	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter.				
Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup interval Backup destination Data format	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtee Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 5 to 85%RH. (non condensed)				
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Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup interval Backup destination Data format nment AC Adapter	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter. 5 to 85%R.H. (non condensed) (When using the USB PD as the power supply, the spec. is based on power supply requirements.) AC 100~240V / 50~60Hz 8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514)				
Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup interval Backup destination Data format nment AC Adapter DC power USB PD	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtee Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter. 5 to 85%R.H. (non condensed) (When using the USB PD as the power supply, the spec. is based on power supply requirements.) AC 100~240V / 50~60Hz 8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514) External USB PD compatible battery(USB Power Delivery Revision 2.0 later) ,(not supplied				
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Memory contents Functions Ring capturing Relay capturing Relay capturing Backup interval Backup interval Backup destination Data format nment AC Adapter DC power USB PD ion [WxDxH] (approx.)	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data. GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter. 5 to 85%RH. (non condensed) When using the USB PD as the power supply, the spec. is based on power supply requirements.) AC 100~240V / 50~60Hz 8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514) External USB PD compatible battery(USB Power Delivery Revision 2.0 later), (not supplied Below 24VA(when using the supplied AC adapter, AC100V) Standard terminal (B-564) or Screwless terminal (B-564SL): 187.5 × 183 × 65.5 mm				
Memory contents Functions Ring capturing Relay capturing File format Functions during capture Backup destination Data format nment AC Adapter DC power USB PD ion	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter. 5 to 85%R.H. (non condensed) (When using the USB PD as the power supply, the spec. is based on power supply requirements.) AC 100~240V / 50~60Hz 8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514) External USB PD compatible battery(USB Power Delivery Revision 2.0 later), (not supplied Below 24VA(when using the supplied AC adapter, AC100V) Standard terminal (B-564) or Screwless terminal (B-565L): 187.5 × 183 × 65.5 mm Withstand high-voltage high-precision terminal (B-565): 187.5×183×73.4mm				
Memory contents Functions Ring capturing Relay capturing File format Functions during apture Backup interval Backup destination Data format nment AC Adapter DC power USB PD ion [WxDxH] (approx.) usions)	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter. 5 to 85%R.H. (non condensed) (When using the USB PD as the power supply, the spec. is based on power supply requirements.) AC 100~240V / 50~60Hz 8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514) External USB PD compatible battery(USB Power Delivery Revision 2.0 later), (not supplied Below 24VA(when using the supplied AC adapter, AC100V) Standard terminal (B-564) or Screwless terminal (B-564SL): 187.5×183×55.5 mm Withstand high-voltage high-precision terminal (B-565): 187.5×183×73.4mm Standard terminal (B-564) is attached: 1090g				
Memory contents Functions Ring capturing Relay capturing Relay capturing Backup interval Backup interval Backup destination Data format nment AC Adapter DC power USB PD ion [WxDxH] (approx.)	Setup conditions/ Measured data OFF, Ring capturing, Relay capturing If the number of recordings is exceeded "1000 to 2000000", recording will continue on another file with deleting the oldest one. When ring capture is ON, the possible recording time becomes less The captured data is continuously captured by files separated in the set relay unit without losing data GBD (Graphtec Binary Data)Format/CSV Format Replacement of SD CARD OFF, 1, 2, 6, 12, 24 hours, Each file Internal memory, SD card, FTP GBD-CSV -20 to +60°C only when using B-564 or B-564SL input terminals & DC power. 0 to +45°C when using B-565 input terminal or AC Adapter. 5 to 85%R.H. (non condensed) (When using the USB PD as the power supply, the spec. is based on power supply requirements.) AC 100~240V / 50~60Hz 8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514) External USB PD compatible battery(USB Power Delivery Revision 2.0 later), (not supplied Below 24VA(when using the supplied AC adapter, AC100V) Standard terminal (B-564) or Screwless terminal (B-565L): 187.5 × 183 × 65.5 mm Withstand high-voltage high-precision terminal (B-565): 187.5×183×73.4mm				
	Alarm output ((hold function) Input/ (only function) Input/ specifications Alarm output types Input specifications Alarm output specifications Revolutions mode Counts mode Inst. Mode Maximum number of pulse inputs EU) Types Functions Ethernet functions USB functions Realtime data transfer speed Internal memory sot				

Input term	ninal specification	on (Option)					
		Standard terminal	Screwless terminal	Withstand high-voltage			
		(B-564)	(B-564SL)	high-precision terminal (B-565)			
Number of a	nalog channels	20ch	20ch	20ch			
Input termin	al type	M3 screw (Rectangular flat washer)	Screwless	M3 screw (Rectangular flat washer)			
Input metho	d	Photo MOS relay scanning sy	rstem, All channels isolated, b	alanced input			
		*Terminal b to be used to co	nnect the RTD and is shorted	within all channels.			
Sampling sp	eed	10 ms/1 ch maximum (10 ms to 5	60ms; voltage only, Due to restrict	tions on the number of channels)			
Measurement	Voltage	20, 50, 100, 200, 500 mV: 1, 2	2, 5, 10, 20, 50, 100 V: 1-5 VF.S	5.			
ranges	Temperature(*4)	Thermocouples: K, J, E, T, R, S, B, N, C (WRe5-26)					
		RTD: Pt100, JPt100, Pt1000 (IEC751)					
		Temperature range: 100°C, 500°C, 2000°C					
	Humidity(*5)	0 to 100% (voltage 0 to 1 V scaling conversion) fixed *B-530(option) is required					
A/D convert	er	Method: $\Delta\Sigma$ method, Resolution: 16-bit (Effective resolution: About 1/40000 of the +/- range)					
Input resista	nce	1MΩ ±5%	1MΩ±5%	1MΩ±5%			
Allowable sign	nal source resistance	Less than < 300 Ω	Less than < 300 Ω	Less than < 100 Ω			
Maximum	Channe l s ((+) / (-))	20mV-2V Range: 60Vp-p,5V-100	V Range : 110Vp-p				
permissib l e	Channel/Channel	60Vp-p		600Vp-p			
input voltage	Channel/GND	60Vp-p		300Vp-p			
Withstand	Channel/Channel	350 Vp-p 1 minute		600Vp-p			
vo l tage	Channel/GND	350 Vp-p 1 minute 2300VACrms 1 minute					
Filter		Off, 2, 5, 10, 20, 40(Filter operation is on a moving average basis. The average value of the set sampling count is used.					
		If the sample interval exceeds 30 seconds, the average value of data obtained in a sub-sample (30 seconds) is used					
* Inquiries	related to Measu	rement accuracy sha ll be ref	erred to our web site.				

Wireless LAN Unit B-5	Wireless LAN Unit B-568 (Option)						
Communication method	Wireless communication (2.4GHz band)						
Installation location	Insert into the SD CARD slot						
	*When the wireless unit is inserted, an SD CARD cannot be inserted into the SD CARD slot.						
Wireless LAN standard	IEEE802.11b/g/n						
Function	Communication range: Approx. 40 m (Range varies depending on the obstacles and						
	the surrounding environment)						
	WPS: Push button method / PIN method						
	Encryption function: WEP64, WEP128, WPA-PSK/WPA 2-PSK, TKIP/AES						
Humiditusenses D. C2	0/006100						

Humidity sensor B-53	Humidity sensor B-530(Option)					
Allowable range	Temperature: -25 to +80℃, Humidity: 0 to 100% RH, Capacitance method					
Relative humidity measurement	Measurement environment(0 to 80°C) Measurement accuracy(±3% to ±8%RH)					
accuracy(5 to 98%)	*Measurement accuracy at 60°C or more is a reference value.					
Response time	15 sec. (90% response when membrane filter is installed)					
External dimensions	φ14 x 80 mm (excluding cable)					
Cable length	3m					

Cable length 5111						
Control Software G	Control Software GL-Connection (Only STAND-ALONE mode)					
Item Description						
Supported OS(*3)	Windows10/Windows8.1					
Function	Main unit control, real-time data capture, data conversion					
Number of CHs per 1 group	Up to number of connected units					
Maximum number of channels	MAX: 2000CH					
Settings	AMP settings, capture settings, Trigger/Alarm settings, others					
Captured data	Realtime data (CSV, GBD Binary)					
	Data in Internal memory or SD CARD (CSV, GBD binary)					
Display	Analog waveforms, logic waveforms, pulse waveforms, digital values					
Display modes	Y-T View, Digital View, XY View, FFT View					
File conversion	Between cursors, All data					
Statistic/History	Maximum, Minimum, and Average during data capturing					
E-mail function	Alarm monitor enables sending of e-mail to the specified address					

	Functions during capture	Replacement of SD CARD	E-mail function	Alarm monitor e	nables sending of e-mail to the specified address
ata backup	Backup interval	OFF, 1, 2, 6, 12, 24 hours, Each file	Options and Access	ories	
ınction	Backup destination	Internal memory, SD card, FTP	Item	Descripti	on Description
2)	Data format	GBD·CSV	Input/output cable for		2 m long (teminated with mating connector and bare wires)
perating Enviror	nment	-20 to +60 $^{\circ}\text{C}$ only when using B-564 or B-564SL input terminals & DC power.	DC drive cable	B-514	2 m long (teminated with mating connector and bare wires)
		0 to +45°C when using B-565 input terminal or AC Adapter.	Humidity sensor (*6)	B-530	3 m, with a dedicated power connector (Allowable operating temperature range: -25°C to +80°C
		5 to 85%R.H. (non condensed)	Humidity sensor power be		Used for connecting 10 humidity sensors : Built to order
		(When using the USB PD as the power supply, the spec. is based on power supply requirements.)	Standard terminal	B-564	Analog input terminal
Power source AC Adapter DC power		AC 100~240V / 50~60Hz	Withstand high-voltage high-precis		Analog input terminal
		8.5 to 24V DC (Maximum 26.4V)(Requires option (B-514)	Screwless terminal	B-564SL	Analog input terminal
	USB PD	External USB PD compatible battery(USB Power Delivery Revision 2.0 later), (not supplied)	Expansion terminal base	B-566	Used for attaching each input terminal
ower consumpti	ion	Below 24VA(when using the supplied AC adapter,AC100V)	Expansion terminal	B-567-0	3 .
cternal dimensions	[W×D×H] (approx.)	Standard terminal (B-564) or Screwless terminal (B-564SL) : $187.5 \times 183 \times 65.5$ mm	connection cable	B-567-2	
excluding protru	sions)	Withstand high-voltage high-precision terminal (B-565): 187.5×183×73.4mm	Wireless LAN unit	B-568	
/eight (approx.)		Standard terminal (B-564) is attached: 1090g	Bracket for DIN rail	B-540	Bracket for DIN rail (GLT400 or B-566)
xcluding AC ada	apter)	Screwless terminal (B-564SL) is attached: 1020g	Shunt resistor 250Ω	B-551	250Ω (± 0.1%), rated power 1W, maximum operating voltage15.8V
		Withstand high-voltage high-precision terminal (B-565) is attached: 1120g	Terminal base cover	B-588	Mountable each analog terminal. Not mountable when B-551 Shunt resistor used
thers		Vibration: Automobile parts Type 1 Class A equivalent	Needle-shape K-type therr	nocouple RIC-410	-100 to 300°C. Class 1, Cord length; 1.1 m
		otion) is required to use the external I/O function.	Stationery-surface K-type the		-30 to 400°C, Class 2, Cord length: 1.1 m
		backup destination is set to FTP and the captured file is deleted when the backup of the FTP client RING mode or external pulse synchronization sampling is selected for recording, the backup function	L-type stationery-surface	RIC-430	-30 to 600°C, Class 2, Cord length: 1.1 m
		tive channels or the sampling time is fast or the backup interval is long, it may take time to close	K-type thermocouple		
When saving file to Available sampling When backup is en are not available. 3: We cannot suppor 4: Thermocouple dia 5: 3-wire system 6: When you are not 7: Switch between Lo	o FTP server using wire g speed is 100 ms or s habled and data file fo rt OS that is no longer ameters T - K: 0.32 φ, o used B-542, available ogic and Pulse. Switch	se the size of the data to be backed up becomes large. eless LAN connection, backup may fail depending on the communication condition. lower when using the CSV format, SD memory card exchange (hot-swapping) and RELAY recording supported by the OS manufacturer. thers: 0.65 ap for only one humidity sensor. Allowable temperature range: 25°C to +80°C (Built to order with 10m, 15		memory Please	e make a backup of data whenever possible to avoid data for
Brand names o	and product r	names listed in this brochure are the trademarks or registered trade t to change without notice. For more information about product	demarks of their res	pective owner	S.



Important safety instructions

- Before using it, please read the user manual and then please use it properly in accordance with the description.
 To avoid malfunction or electric shock, please ensure ground connection and use it in specified power source.

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.



Ihr Ansprechpartner / **Your Partner:**

dataTec AG

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