GRAPHTEC

REPHILEC

High-speed isolated 4-channel multifunction logger midi LOGGER GL900-4



Multifunction input on four isolated channels

NEW

IN LOCOLS OLSOD

High-speed simultaneous sampling on four channels, 16-bit resolution

ACARM TETZIATA

Equipped with a large-format 5.7-inch color LCD for easy-to-read waveform display

Data can also be saved to PC-friendly USB memory sticks

Can be used as an X-Y recorder

	an u	nit sp						
tem		h-	Descri	ption				
No. of analog input ch.		4 ch						
External input/output			Trigger input (1 channel), Logic input (4 channels) or Pulse input (4 channels), Alarm output (4 channels)					
Sampling interval		10µs to 1 min						
TIME/DIV					24 hour/DIV			
Timer functions			Date and time, daily cycle, hourly cycle, off					
	Туре		Start: Data capture starts when a trigger is activated; Stop: Data capture stops when a					
unctions	0		trigger is activated					
	Condi	tion	Start: Off, Input signal level (analog, logic/pulse), External *1, Scheduled time					
-			Stop: Off, Input signal level (analog, logic/pulse), External *1, Scheduled time					
		ination	Input signal level: Level OR, Level AND, Edge OR, Edge AND					
	Mode		H (Rising), L (Falling), Window In*2, Window Out*2					
Alarm setting functions		Rising, Falling, Window In*2, Window Out*2						
Alarm output *1			Number of channels: 4, Open collector output (5V, 10 kΩ pull-up resistance)					
Pulse	RPM n			0 to 20 M RPM/F.S. (in steps of 1, 2, or 5)				
nput*1, *3	Count	mode	50 to 20 M C/F.S. (in steps of 1, 2, or 5)					
	Inst. N	lode	50 to 20 M C/F.S. (in steps of 1, 2, or 5)					
Calculation function:		;	Statistical calculations *4: Average, Peak, Maximum, Minimum, RMS (2 calculations can					
		be set simultaneously)						
Other functions		Search function, annotation input function						
PC inteface			Ethernet (10BASE-T/100BASE-TX), USB (High Speed supported) provided as standard					
Ethernet functions		Web server function, FTP server function, NTP client function						
USB function			USB drive mode (File transfer and deletion from internal GL900 memory)					
		One million data points / Internal flash memory:Approx. 256 MB						
laudaa 1	Extern		USB memory slot (High speed supported) *5					
)isplay screer			Waveforms + digital values, enlarged waveforms, digital values + calculation results, X-Y					
Display unit			5.7-inch TFT color LCD					
Dperating env	ironmo	nt						
Vithstand volt		9111	0 to 40°C, 5 to 85% R.H. (15 to 35°C when using batteries) Between each input channel and GND: 1000 V p-p for one minute, between input					
vitristanu voit	lage		terminals: 1000 Vp-p for one minute					
ower	AC ada	ontor	100 to 240 VAC, 50 to 60 Hz					
	DC inp		8.5 to 24 VDC					
- · · · ·		pack *6						
		раск •	-					
Power consun	<u> </u>		40 VA (when operating and charging battery with AC power)					
External dime			232 x 150 x 80 mm (W x H x D), approx.					
Weight (approx.)			1.0 kg (excluding AC adapter and battery)					
/ibration-teste	ed cono	ditions	Equiva	lent to	automobile parts Type 1 Category A classi	fication (JIS standard)		
Ferminal	bloc	k spe	cifica	tion	S			
Item					Description			
nput terminal type		Voltage			BNC connector			
		Tempe	rature		M3 screw type terminal board *7			
nput method					All channels isolated Imbalanced input Simultaneous sampling of all channels			
Measurement ranges		Voltage			20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50, 100, 200, 500 V F.S., 1-5 V F.S.			
		Temperature			Thermocouples : K, J, E, T, R, S, B, N, W (WRe5-26)			
		Humidity			0 to 100% (voltage 0 V to 1 V scaling conversion) with B-530 (option)			
nput filter					Off, Line, 5 Hz, 50 Hz, 500 Hz			
		Voltage	,		±0.25% of F.S.			
accuracy *8		-		Type		Measurement accuracy		
(23°C±5°C)		menno	ocouple	R/S	Measurement temperature range 0°C ≤ TS ≤100°C	±7.0°C		
When 30 minu				11/3	100°C < TS ≤100°C	±5.0°C		
more have elapsed after power was switched on Filter : Line GND : connected Standing upright Average values					R:300°C < TS ≤1600°C	±(0.05% of rdg +3.0°C)		
					S:300°C < TS ≤1760°C	±(0.05% of rdg +3.0°C)		
				В	400°C ≤ TS ≤600°C	±5.5°C		
					600°C < TS ≤1820°C	±(0.05% of rdg +3.0°C)		
					-200°C ≤ TS ≤ -100°C	±(0.05% of rdg +3.0°C)		
				к	-100°C < TS ≤ 1370°C	±(0.05% of rdg +2.0°C)		
				E	-200°C ≤ TS ≤ -100°C	±(0.05% of rdg +3.0°C)		
					-100°C < TS ≤ 800°C	±(0.05% of rdg +2.0°C)		
				Т	-200°C ≤ TS ≤-100°C	±(0.1% of rdg +2.5°C)		
					-100°C < TS ≤400°C	±(0.1% of rdg +1.5°C)		
				J	-200°C ≤ TS ≤-100°C	±3.7°C		
		N W			-100°C < TS ≤ 100°C	±2.7°C		
					100°C < TS ≤ 1100°C	±(0.05% of rdg +2.0°C)		
				N	0°C ≤ TS ≤ 1300°C	±(0.1% of rdg +2.0°C)		
				W	0°C ≤ TS ≤ 2000°C	±(0.1% of rdg +2.5°C)		
					Reference contact of	compensation accuracy : ±1.0°		
					16 bits (out of which 14 bits are internally			
VD converter	A/D converter Maximum permissible input voltage				Between + and - input terminals	20 mv to 1 V : ±30VDC		
	waximum permissible input vo				Secretion i and - input terrininais			
	11155101				1	2 V to 500 V : ±500VDC		
	11155101				Detrogen langet also and the second second	CO 1/2 2		
	missio				Between input channel terminals	60 Vp-p		
/laximum peri					Between input channel terminal and GND terminal	60 Vp-p		
A/D converter Maximum peri Mathstand volt								

Control software spec	ifications					
Item	Description					
Supported OS			Vista (32-bit and 64-bit versions)			
Functions		al-time data capture, data conversion				
Setting range		Amplifier settings, data capture settings, trigger settings, alarm settings, o				
Captured data	Real-time data		ary: Sampling speed: 10 μ s to 60 s V: Sampling speed: 10 ms to 60 s			
	Data conversion		10 115 10 00 5			
Display information			se waveforms, digital values			
File conversion	Data between ci		se wavelonns, digital values			
2-screen function (Zoom)		nt and past data				
Display of statistics and history		num, minimum, and ave	rage values			
Options and accessor		, , , , , , , , , , , , , , , , , , , ,				
Product name		Model name	Specification			
USB memory 2GB		B-550	2GB			
Battery pack*6		B-517	One pack			
Logic alarm cable		B-513	2 m			
DC drive cable		B-514	2 m			
Humidity sensor*9		B-530	3 m			
Safe probe		RIC-141	1:1, 42 pF			
Isolated BNC-BNC cable		RIC-142				
Isolated BNC-banana plug cable		RIC-143				
Alligator clip (small)		RIC-144	Connect to RIC-143			
Alligator clip (Middle)		RIC-145	Connect to RIC-143			
Grabber clip		RIC-146	Connect to RIC-143			
BNC-BNC cable		RIC-112	1.5 m			
BNC banana plug cable		RIC-113	1.5 m			
BNC alligator clip cable		RIC-114	1.5 m			
Rod-shaped K-type thermoco	uple	RIC-410	1.1 m			
K-type thermocouple for static	surfaces	RIC-420	1.1 m			
L-shaped K-type thermocoupl	e for static surfaces	RIC-430	1.1 m			
Ultrafine K-type thermocouple		ST-55K-TC-1.2M	Wire diameter 0.127,0.5 x 0.7 200mr			
	1	0				
Humidity sensor *9	Safe probe	Isolated BNC-BNC Cabl	e Isolated BNC banana plug cable			
(B-530)	(RIC-141)	(RIC-142)	clip (RIC-143) (RIC-146)			
\mathbf{O}		\bigcirc	(RIC-145) 🚖 🌔 (RIC-144) 左			
BNC-BNC cable BNC (RIC-112)	banana plug cable (RIC-113)	BNC alligator cl (RIC-114)	p cable Rod-shaped K-type thermocouple (RIC-410)			
O- C	5	6	$\overline{\mathbf{O}}$			
K-type thermocouple L-sh for static surfaces (RIC-420)	aped K-type thermoc for static surfaces (RIC-430)		e thermocouple TC-1.2M)			
Q	$\overline{\bigcirc}$					
Digital clamp meter sp		0 to 400A /0 to 2000A				
Current DC: 0 to 400A /0 to 20	00A AC :	0 10 400A /0 10 2000A	COM V			
Current DC : 0 to 400A /0 to 20 Voltage DC : 0 to 40V / 0 to 400 Other Frequency,Duty ratio,P	OV / 0 to 600V AC :	0 to 40V / 0 to 400V / 0 to	600V			

Logic alarm cable (B-513) is required.
'1 Logic alarm cable (B-513) is required.
'2 Cannot be set for logic input
'3 Maximum input frequency: 50 kHz, maximum number of counts: 15 M C
'4 In real time or when Between Cursors has been specified (during Replay)
'51 file = 2 Gbytes (depends on the USB memory stick used) *6 Please install two battery packs.
'7 Connections are made to both the BNC terminal and M3 screw terminal for the same channel.
'8 Thermocouple diameters T:0.32mm, others:0.65mm
'9 Operating temperature range: -25 to +80°C



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RoHS Compliant model

ER040903 Vol.2

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