

Integrated Recorder



Everybody's problem: Accelerated product development. Our goal: Decreasing the period between data acquisition and data analysis. Our solution: For data recording systems, the GX-1.

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Fast Collection of Valuable Data

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The GX-1 Integrated Recorder is a compact, A4-size, data recording system with signal change from Question to Statement. Now you can accelerate the recording and transfer of valuable information from data-acquisition sites to data processing and analysis groups. With the goal of decreasing various data-recording overheads, the GX-1 provides an integrated solution in a single system: integrating such functions as connecting sensors, recording data, viewing recorded data on site, and transferring data to high-level processing and analysis systems. To let you use the GX-1 from the day it is installed, we supply the GX Navi software, which provides unified control of sensing, calibration, data recording, monitoring, and transfer of data to PC.

CONNECTING Input/output components using card slots

You can select from a wide range of input/output cards that can be inserted into the main unit. For example: input amp cards that enable direct input with DC, acceleration sensors, strain gages, measuring microphones, thermocouples,etc. —with 16-bit A/D converters built into each channel; analog output amp cards with built-in16-bit D/A converters; digital input/output. Each input/output card has 2 channels, with 8 slots in the main unit giving 16 channels. If you need more channels, by using an expansion unit that has the same size as the main unit, you can build a recording system that has a maximum of 64 channels.

1 machine, 2 roles: An A/D converter with a built-in signal conditioner, or a data recorder with a choice of recording media

You can record directly to a PC connected via the main-unit's SCSI interface, with the main unit acting as the front end for measuring. In addition to recording to memory, you can record onto 3 types of removable media that can be accessed directly from a PC drive: MO (magneto-optical) disks, AIT (Advanced Intelligent Tape) cassettes, and PC cards. You can choose the recording medium that best suits your needs: for example, recording low-speed phenomena over a long period, or recording high-speed phenomena that occur intermittently.

Save recorded data in the convenient TAFFmat format for data processing on a PC

Recorded data is saved in the TAFFmat (TEAC Data Acquisition File Format) format. TAFFmat files combine binary data files with header files that contain the input/output amp card settings and recording conditions. One binary data file and one header file are produced each time a recording is saved. You can transfer data via the SCSI interface on the main unit, or use a PC's drive to read data that the GX-1 recorded onto an MO disk, tape, or PC card.

TEAC



Viewing

Real-time monitoring—great for on-site checking of data

If you connect to a notebook computer, in addition to setting signal conditioner parameters and controlling recording behavior, you can monitor and display in real-time, and switch among waveform, bar graph, and FFT windows. In addition, for environments where a PC cannot be used, or for experiments in vehicles, a dedicated LCD controller can provide real-time monitoring. (This controller is for use in systems that use the AIT, MO disk, or PC card media for recording.)

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Convenient features from earlier data recorders are preserved

The main unit contains the channel parts required for analog output amp cards, so you can perform analog playback of data recorded onto some media. Also, you can still record and play back voice memos, which enables you to use the GX-1 in the same way as earlier data recorders.

•3 power sources for reliable recording in the field

You can select from a DC power source (11 to 30 V), internal AC power pack, or a builtin battery pack. Using a combination of DC and an AC power pack, or DC and a battery pack, provides power backup for redundant operation.



Combine our wide selection of input/output amp cards, and build a system of up to 64 channels!

You can select the input/output amp card that best matches what you want to measure. Each input/output amp card contains 2 channels. The GX-1 main unit has 8 slots and 16 channels, and you can add up to three 8-slot AU-GXEPIO expansion units, to provide a system with a maximum of 64 channels.



 Setting recording parameters The supplied GX Navi software enables easy operation from a PC THE FACE FILS connected via the main unit's SCSI interface: you can calibrate and specify parameter settings such as the input range of input/output cards, sampling frequency, filters, etc. Because you can save the recording parameters as a file, by simply loading the file you can reduce the work required to apply the settings each time.

The GX-1 main unit and the expansion input/output unit AU-GXEPIO



This amp can be connected directly to a charge accelerometer. The amp has an electric charge sensitivity of 0.1 to 999 pC/G, a maximum measurement range of 500 G (however the 100 G and 500 G range cannot be used when the electric charge sensitivity is 100 pC/G or higher), and a maximum frequency range of 30 kHz (1 G = 9.81 m/s²)

Connecting

Recording

This amp can supply sensor power to an ICP-type acceleration sensor. The amp can also be used as a general DC input amp with a maximum input range of ± 20 Vp, and a maximum frequency characteristic of 80 kHz (with filtering of 40% of the sampling frequency)

This amp, equipped with power output for microphones, can be connected directly to a noise-measuring microphone. The amp has a maximum input range of 130 dB, and a maximum frequency characteristic of 20 kHz.

This amp has a TTL mode with a maximum frequency range of 500 kHz and an AC mode with a maximum of 10 to 20 kHz You can set a pulse count from 1 to 255

Two types of thermocouple input cards

are available: the J type and K type.

This strain amp has an input range up to a maximum strain of $10,000 \mu$, and maximum frequency characteristic of 30 kHz

to the stop of recording.

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•For details on each input/output card, see the specifications

Transfer to a PC in real time, or record directly to various media

You can transfer and record data directly to a PC connected via the main-unit's SCSI interface. Or, you can record data onto a recording medium in the main unit, and then send the data to the PC. Or, you can first record the data onto media such as an MO disk. AIT cartridge, or PC card, and then insert this media into a PC drive for reading. You can select the method that best suits your experimental environment, goals, the frequency bandwidth of what you want to measure, and the required recording time.

In the real-time mode, the usable sampling frequency and the length of the recording time may vary depending on the data processing speed at the PC. When recording to a recording medium, maximum recording transfer rates differ with the medium, as shown in the following table. However, the maximum sampling frequency of the built-in input/output card is the upper limit.

Recording times (at maximum transmission rate) depending	on the type of media
and the sampling frequency	(Up to 32 channels

Real-time transfer	1600 k (50 k x 32ch etc.)	Depends on the type of media at the PC
MO (1.3 GB)	200 k (20 k x 10 ch etc.)	Max. of approx. 50 min.
AIT (25 GB)	1600 k (50 k x 32ch etc.)	Max. of approx. 138 min.
Memory (when 256 MB)	3200 k (200 k x 16 ch etc.)	Approx. 40 sec.
Media (recording capacity)	Sampling frequency x number of channels (at maximum)	Recording time (at maximum transmission rate)

		(From 33 to 64 channels
Media (recording capacity)	Sampling frequency x number of channels (at maximum)	Recording time (at maximum transmission rate)
Memory (when 256 MB)	2500 k (50 k x 50 ch etc.)	Approx. 50 sec.
AIT (25 GB)	1280 k (20 k x 64 ch etc.)	Max. of approx. 170 min.
MO (1.3 GB)	200 k (20 k x 10 ch etc.)	Max. of approx. 50 min.
Real-time transfer	1280 k (20 k x 64ch etc.)	Depends on the type of media at the PC



Recording voice memos

You can record by synchronizing with an external sampling frequency up to the maximum sampling frequency of a built-in input amp card. Perform data processing on the recorded data as a file.

External sampling

Multi-sampling

When sampling is based on an internal clock, you can set a sampling frequency that is different for each input card. (However, the maximum value of the sampling frequency set for each input card must be within 10 times of the minimum value.) When fast and slow phenomena coexist, multi-sampling enables efficient recording.

Recording by trigger condition

You can use the supplied GX Navi software to set recording intervals based on pre-triggers, post-triggers, level triggers, repeat recordings, or times. You can also record by using a combination of these trigger conditions.

When recording voice memos, you can

record to internal memory or an AIT cartridge as one channel.*1 To convert a recorded voice memo to a WAV file and listen to the file, you can download a free Windows PC utility from the TEAC home page. You can also record a voice memo as a WAV file onto an MO disk, to internal memory, or onto a PC card. You can use the Windows media player to listen to such voice-memo WAV files.

Two types of remote control units

Two types of remote control units can be connected to the GX-1 main unit

•DK-GXLCD: Remote control unit with LCD *2



Integrated Recorder

Paramentage Paramentaged

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Total Box



This amp is used for input of pulses. divided up by a photo-coupler. You can select a mode for counting the number of pulses in a gate period or a total count mode that counts the total number of pulses from the start

82

This amp has 16-bit digital input/output for each channel. The amp also allows input of signals for triggered recordings.

-

This amp can provide ±1 to 5 V analog output. The frequency range is to a maximum of 80 kHz.

The maximum recording and playback rate for a channel configuration composed of a combination of various types of input/output amp cards is restricted by the maximum transfer rate for the entire system.

This control unit with a 640 x 480 pixel LCD color display is very convenient in environments where you cannot use a PC. In addition to enabling you to set recording parameters, start and specify settings for recordings, and attach event marks to data, this remote control unit has the same display functions as a PC screen used for real-time monitoring during recording.

ER-GXRC: Handy remote control unit *3

After using a PC to specify settings, you can use this remote control unit to start and stop recording, and to attach event marks to data.



The optional CL-GXRC cable is available for using external controllers in the same way as for this handy remote control unit: connections use the remote control unit connector. The ER-GXRC can also be used with a PC

KH-2ST battery charger for the internal battery **HP-30A**

The internal battery can operate for more than 40 minutes at a sampling frequency of 50 kHz in a configuration with an AIT drive. DC input amp card, and 16 channels. When the main unit is working off DC power, this battery will maintain operation if power fails. Use the dedicated charger to recharge the internal battery.

- 1: To record a voice clearly, set the sampling frequency for the plug-in input module to 5 kHz or higher.
- *2: A power source exclusively for this unit is required. (An AC adapter and a DC input terminal are provided. When using a battery, request the TZ-GXDKM tilting table and the HP-30A battery pack.)
- 3: You cannot confirm settings, or perform monitoring during recording, etc.

Use multiple windows for real-time checking of data recorded over multiple channels Viewing

By using PC windows or the DK-GXLCD remote control unit with an LCD, you can perform real-time monitoring of data during recording. Also, you can check data after sensor calibration, and perform an on-site review of data after a recording. By switching among time-series waveforms. FFT. and parameter windows, and by displaying multiple channels simultaneously, you can reduce the costs and labor required to carry oscilloscopes and FFT analyzers to a site. When a PC is connected via a SCSI interface to the GX-1 main unit. you can use the supplied GX Navi software to achieve realtime monitoring.

Waveform display window



You can display selected channels (up to 16) in a single window. Also, you can set the channels being monitored by increasing the number of displayed pages, and by switching among each displayed page. When displaying data after recording to memory, you can perform operations such as reading data by using the cursor line, scrolling the display, or zooming into a specified range of a waveform.

FFT window



You can show FFT displays of selected

channels (up to 16) in a single window.

Selectable items include linear scale or

log scale, peak hold, average-value

display, and window functions.

Bar graph display window



You can show all channels in one window. This window includes a peakhold function. When a set range is exceeded, an overload indicator function displays the problem in red.

- With sampling frequencies that exceed 50 kHz, there are limitations on the monitoring display functions when recording or plaving back.
- When monitoring during recording based on external sampling, there are limitations on separate displays.

Fransferring

- When using the AR-GXAO analog output amp, the plavback
- display shows the waveform display only. • When using the remote control unit DK-GXLCD with the LCD,
- the playback display shows the waveform display only.

Perform fast PC-based data processing and analysis

Recorded data is saved in the TAFFmat (TEAC Data Acquisition File Format) format common to the TEAC digital data recorders. Because recorded data can be processed directly on a PC, you can expect fast analysis of experiment data. Also, an analog output card is available for cases that require playback of analog signals.

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Transfer recorded data from

Using the supplied GX Navi software, you can copy data files (recorded to memory, or onto an AIT cartridge, MO disk, or PC card) to the hard disk of a PC connected via a SCSI interface.

Read directly from media inserted into a PC drive

X-Y plot display



After using a GX-1 to record data onto an AIT cartridge, you can insert the cartridge into a PC drive and (at the PC) use the GX-View utility to directly read the recorded data files from the tape. Similarly, when data is recorded onto an MO disk or PC card, you can directly read the recorded files after inserting the disk or card into a PC drive.

Use the GX View program to check data immediately after recording



The GX View program is a utility for playing back recorded data in a PC window. You can use a PC to read data that was recorded on an AIT cartridge. and have multiple waveform displays of channel data, or X-Y displays of selected channels. Part of a waveform can be cut, and that part can be converted to a file: for example, into ASCII data. To enable data files recorded by GX-1 to be read by commercially available programs that specialize in analysis of measurement data, we have a library of file converters for various file formats.

File convert dialog



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SPECIFICATIONS

GX-1 Main Unit	
Signal conditioner slots:	8
Recording device slot:	1 (TOT ALL, MU OF PU CARD OFIVE SELECTADIE)
Interface:	SCSI (connector 50-pin half size x 1 huilt-in
Internace.	terminator)
Contact-point control:	START, STOP, EVENT, REC STANDBY
Expansion bus	1 (common)
connector:	
connector:	input)
Monitor channel	1
analog output:	
Microphone jack:	1
Speaker/earphone jack:	1 each
Sampling frequencies:	Up to the maximum campling frequency of each
External clock.	signal conditioner
Internal clock:	1, 2, 5, 10, 20, 50, 100, 200, 500 Hz
	1, 2, 5, 10, 20, 50, 100, 200, 500 kHz, 1MHz
Multi sampling:	10:1
	Note: The value [sampling-frequency x number-
	OT-Channels must not exceed 3,200 KHz (In Memory type) and 1,500 kHz (in AIT type)
	un to 32 channels
Power:	+11 to 30 V DC, approx, 45 W
	(Memory-type, all channels DC signal
	conditioner installed)
	Built-in AC adaptor
	(separate adaptors for 100 V and 200 V)
	Regulations. FOG Part 15 Class A, GE Rattery (ontion)
Power consumption:	Approx. 45 W (w/ DC input signal conditioner
	installed for all channels, w/o AIT drive)
	Approx. 58 W (w/ AIT)
Operating temperature:	0 to 40°C (32 to 104°F)
Storego tomporaturo	5 to 35°C (41 to 95°F, W/AIT)
Onerating humidity:	-20 to 80% BH (non-condensing)
Vibration:	MII -STD-810D Figure 514.3-1, 2, 3
	MIL-STD-810C Figure 514.2-6 V Curve (1.5 G,
	vertical) w/AIT
External dimensions:	approx. 300W x 85H x 200D (mm)
	[approx. 11-13/16" W x 3-3/8"H x 7-7/8"D]
	(excluding protruding parts)
Mass.	annrox 5 kg (11 ()2 lbs)
Mass:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT)
Mass:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor)
Mass:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor)
Mass: Battery Pack (H	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A)
Mass: Battery Pack (H Supply voltage: Canacity:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ab
Mass: Battery Pack (H Supply voltage: Capacity: Size:	approx. 5 Kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charges	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) • (//L-2ST)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charge: Battery charge:	approx. 5.5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) • (KH-2ST) 100 V.AC (Automatic switching to 200 V.AC)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of solt for	approx. 5.5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE red Lipat (DK-GXI CD)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Incl Unit (DK-GXLCD) Color TFT liquid crystal disnlav
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display:	approx. 5.5 kg (11.02 lbs.), approx. 5.76 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFI liquid crystal display, 640 x 480 pixels
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display: Functions:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control,
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery chargee Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE rd Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 38H x 160D (mm)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Incl Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D]
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions: Power:	approx. 5.5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16' W x 1-1/16'H x 6-5/16'D] (excluding protruding parts)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of solt for battery pack: Display Keyboa Display: Functions: Dimensions: Power:	approx. 5.5 kg (11.02 lbs.), approx. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(H-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +111 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions: Power:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding protruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery chargee Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions: Power:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) f (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Incl Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portunding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilling table) * Tilting table T2-GXDKM (option, mass: approx. 800 g)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions: Power: Bamote Constro	approx. 5.5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 1600 mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding protruding parts) + 11 to 30 VDC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Controo Function:	appros. 5.5 kg (11.02 lbs.), appros. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g) ller (ER-GXRCC)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display: Functions: Dimensions: Power: Remote Controo Function:	approx. 5.5 kg (11.02 lbs.), approx. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16" Hx 6-5/16"D] (excluding protruding parts) +11 to 30 VPC, connecting to tilting table) * Tilting table TZ-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stoc, Event and Record)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Controo Function:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding protruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery chargee Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Controo Function: Cable length:	appros. 5.5 kg (11.02 lbs.), appros. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) r (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE rd Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 1600 mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GACKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59")
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Contro Function: Cable length: Expension: Unit	appros. 5.5 kg (11.02 lbs.), appros. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59")
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of solt for battery pack: Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Contro Function: Cable length: Expansion Unit	appros. 5.5 kg (11.02 lbs.), appros. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) Context Context Section Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" w 1-11/6" Hx -65/16"D] (excluding protruding parts) +11 to 30 VDC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table TZ-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59") (automation) (automat
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Controo Function: Cable length: Expansion Unit Signal conditioner slots: Power:	approx. 5 kg (11.02 lbs.), approx. 5.75 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFI liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 38H x 160D (mm) 19-13/16° W x 1-1/16° H x 6-5/16°D] (excluding protruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59°) C(AU-GXEPIO) 8
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display Keyboa Display Reyboa Power: Power: Remote Contro Function: Cable length: Expansion Unit Signal conditioner slots: Power:	approx. 5.75 kg (WAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 16D0 (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC Internal AC adaptor 15 m (Sprox. 599) 16 (AL) 15 m (Approx. 590) 16 (AC) 15 m (approx. 597) 17 (A) Conternal Control 15 m (approx. 597) 17 (CA) Control 18 (CA) (CA) 19 (CA) (CA) (CA) 10 (CA) (CA) (CA) 11 (CA) (CA) (CA) 11 (CA) (CA) (CA) 11 (CA) (CA) (CA) 13 (CA) (CA) (CA) 14 (CA) (CA) (CA) 15 (CA) (CA) (CA) 15 (CA) (CA) (CA) 15 (CA) (CA) (CA) 16 (CA) (CA) (CA) 17 (CA) (CA) (CA) 17 (CA) (CA) (CA) (CA) 17 (CA) (CA) (CA) (CA) 17 (CA) (CA) (CA) (CA) (CA) (CA) (CA) 17 (CA) (CA) (CA) (CA) (CA) (CA) (CA) (CA)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Contro Function: Cable length: Expansion Unit Signal conditioner slots: Power:	appros. 5.5 kg (11.02 lbs.), appros. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 1600 (mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table TZ-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59") (AU-GXEPIO) 8 +11th 30 V DC Internal AC adaptor (separate adaptors for 100 V and 200 V)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of solt for battery pack: Display Keyboa Display Keyboa Display Keyboa Power: Power: Remote Contro Function: Cable length: Expansion Unit Signal conditioner slots: Power:	appros. 5.5 kg (11.02 lbs.), appros. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 160D (mm) [9-13/16" Wx 1-1/16"H x 6-5/16"D] (excluding protruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59") C(AU-GXEPIO) 8 +11 to 30 V DC Internal AC adaptor (separate adaptors for 100 V and 200 V) Battery (optional, same as for main unit)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display Keyboa Display: Functions: Dimensions: Power: Remote Contro Function: Cable length: Expansion Unit Signal conditioner slots: Power:	approx. 5.5 kg (11.02 lbs.), approx. 5.7 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) C(KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 38H x 160D (mm) [9-13/16" W x 1-1/16" Hx 6-5/16"D] (excluding protruding parts) +11 to 30 V DC, Chermal AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table TZ-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop. Event and Record) * Using contact control 1.5 m (approx. 59") C(AU-GXEPIO) 8 +11 to 30 V DC Internal AC adaptor (separate adaptors for 100 V and 200 V) Battery (optional, same as for main unit) Approx. 300W x 88H x 2000 (mm)
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery life: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display Keyboa Display Reyboa Power: Functions: Power: Remote Contro Function: Cable length: Expansion Unit Signal conditioner slots: Power:	approx. 5.5 kg (11.02 lbs.), approx. 5.7 kg (w/AIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE rd Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 1600 mm) [9-13/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table 12-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59") (AU-GXEPIO) 8 +11 to 30 V DC Internal AC adaptor (separate adaptors for 100 V and 200 V) Battery (optional, same as for main unit) Approx. 300W x 85H x 2000 (mm) [Approx. 11-13/16" W x 3-3/8" H x 7-7/8" D]
Mass: Battery Pack (H Supply voltage: Capacity: Size: Battery charger Power supply: Number of slot for battery pack: Display Keyboa Display Keyboa Display Keyboa Display Keyboa Power: Functions: Power: Remote Contro Function: Cable length: Expansion Unit Signal conditioner slots: Power: External dimensions:	appros. 5.5 kg (11.02 lbs.), appros. 5.75 kg (wAIT) (including 8 DC input amps and an AC adaptor) P-30A) 13.2 V 3.7 Ah NP-1 type Approx. 1 year (depending on number of charges and frequency) (KH-2ST) 100 V AC (Automatic switching to 200 V AC) 4 slots (each 2 packs rechargeable at the same time) * Regulations: UL, CSA, CE Ind Unit (DK-GXLCD) Color TFT liquid crystal display, 640 x 480 pixels monitoring, settings, control, Approx. 250W x 36H x 1600 (mm) [9-3/16" W x 1-1/16"H x 6-5/16"D] (excluding portruding parts) +11 to 30 V DC, External AC adaptor 100 to 240 V AC, Battery (connecting to tilting table) * Tilting table T2-GXDKM (option, mass: approx. 800 g) Iler (ER-GXRC) Record, Playback (Start, Stop, Event and Record) * Using contact control 1.5 m (approx. 59") (AU-GXEPIO) 8 +11 to 30 V DC Internal AC adaptor (separate adaptors for 100 V and 200 V) Battery (optional, same as for main unit) Approx. 300W x 85H x 2000 (mm) [Approx. 1-13/16" W x 3-3/8" H x 7-7/8" D] (excluding portruding parts)

Signal Conditioners

i.

Charge Arm (AD CVC	u)
Charge Amp (AR-GXC	
Number of channels:	2 0.1 to 000 pC/C
Electric charge	0.1 to 999 pC/G
sensitivity:	
Range:	1, 5, 10, 50, 100, 500 G
	(100 G and the 500 G range cannot be used when
	the electric charge sensitivity is 100 pC/G or higher)
	(1 G and the 5 G range cannot be used when the
	electric charge sensitivity is lower than 1 pC/G)
Frequency range:	1 Hz to 30 kHz (-3 dB)
Low nass filer:	100 200 500 1 k 2 k 5 k 10 k Hz
Low pass mor.	(48 dB/oct_Butterworth)
A/D convertors	
A/D converter.	
Sampling frequency:	1 HZ 10 200 KHZ
Power consumption:	Approx. 2.16 W
Input connector:	MICRO DOT 10-32UNF
DC/ICP Input Amp (AR	-GXPA)
Number of channels:	2
Input format:	Unbalanced
Innut counting.	DC (DC mode)/AC (PA mode)
Innut imnedance	100 k obms
Innut range	+0.5 1 2 5 10 20 \/n (DC mode)
input range.	±0.3, 1, 2, 3, 10, 20 Vp (DC III00e)
Leve need files	±0.1, 0.2, 0.5, 1, 2, 5, 10, 20 Vp (PA mode)
Low pass filer:	Autached litter of 40% of sampling frequency
	Filter type: Butterworth (-48 dB/oct.)
Sensor power supply:	18 V DC/0.5, 3, 5 mA (PA mode)
Frequency response:	DC to 80 kHz (DC mode)
	0.1 Hz to 80 kHz (PA mode)
A/D converter:	16-bit, successive approximation type
Sampling frequency:	1 Hz to 200 kHz
Input connector:	BNC
input connectori	5110
Microphone Input Amp	(AR-GXMC)
Number of channels:	2
Input format:	Unbalanced
Input coupling:	AC
Input impedance:	11 k ohms
Applicable microphone:	B&K (only for 50 mV/Pa type)
Input range:	80. 90. 100. 110. 120. 130 dB
Weighting filter	A type C type flat
Frequency resnance:	20 Hz to 20 kHz
Dowor output for	200 V DC for bigs 29 V DC for program
mieronhono:	200 v DG for blas, 20 v DG for prealip
	16 bit augagaging approximation type
A/D converter:	to-bit, successive approximation type
Sampling frequency:	I HZ to 200 kHZ
Power consumption:	Approx. 3.18 W
Input connector:	LEMO FGG-1B-307-CLAD62
F/V Input Amp (AR-GX	FV)
Number of channels	2
Innut-	TTL or AC switching
Input.	10 k abma
Sensitivity (ct 10 ing 1)	10 K UHHIS
Sensitivity (at AU input):	±00 IIIV, ±100 IIIV, ±00 V, ±1 V
rrequency range:	11L mode: 1, 100, 1 K, 10 K, 100 K, 500 K Hz
	(max. 575 kHz)
	AC mode: 10 to 200, 10 to 500, 10 to 1 k, 10
	to 10 k, 10 to 20 k Hz (max. 230 kHz)
	(Maximum permissible input voltage:
	±10V)
Response time:	10 msec
Pulse count:	1 to 255
	(pulses/rotate x frequency-range < 500 kHz)TTL
	(nulses/rotate x frequency-range < 20 kHz)AC
Setting for moving	1 to 16
ocully for illuvilly	
average:	(1000) (1 (
Iransformation	±L(Input-trequency/1000) + (set-trequency-
precision:	range/3125)] Hz
Sampling frequency:	1 Hz to 200 kHz
Power consumption:	Approx. 1.44 W
Input connector:	BNC
Digital Input/Output Ar	mp (AB-GXDIO)
Number of channels	2
Input format:	CMOS level 16 bits each shappel
mput format:	Open drein 16 bits each charact
output format:	Operi urain, 16 bits each channel
Input/Output switching:	Slot by slot
Sampling frequency:	1 Hz to 200 kHz
Trigger:	AND/OR selectable for specified bits
Input/Output connector:	JAE TX20A-36R-D2LT1-A1LH (amp side)

Number of channels:	2
Input format:	Balanced difference input
Input coupling:	DC
Input resistance:	1 M ohms
Gage ratio:	2.0
Excitation voltage:	2 V. 5 V DC within +0.2%
Exercise Fortager	Has remote sensing
Banne:	+200 500 1000 2000 5000 10000 uST
Balance adjustment	Electronic
method.	Liouanio
Frequency response :	DC to 30 kHz (±3 dB)
I ow pass filter:	25 50 250 500 2 5 k 5 k 24 k Hz
Low public milen.	PASS (-48 dB/oct Butterworth)
A/D converter:	16-bit successive approximation type
Sampling frequency:	1 Hz to 200 kHz
Power consumption:	Annrox 3.4 W
Innut connector	HB25-7P-8P (cable side)
input connector.	from Hirose Electric Co. Ltd
Innut cable:	NDIS conversion cable (ontion)
input cable.	With remote sense: CL_CYST2RS
	Without remote sense: CL_CVST2
	WILLIOUT LETHOLE SELISE. OL-GASTZ
Pulse Input Amp (AR-	GXPC)
Number of channels:	2
Input format:	Insulated by photocoupler
Input voltage range:	4 to10 V/8 to 24 V switching
	(8 mA or more input current required)
Responsive frequency:	2 MHz max.
Sampling frequency:	1 Hz to 200 kHz
Counting method:	Division rate: 1/1 to 1/255
	Count: 0 to 32767
	(16 bits with a sign)
	Gate mode: Counts pulses within a gate period
	Gate period is specified by the
	sampling period multiplied by 1 to
	255 The output keeps the same
	count until the next gate The count
	keeps 20767 when swerflows
	keeps 32767 when overhows.
	Iotal mode: Counts total number of pulses
	from recording start to stop.
	Outputs the current total number of
	pulses during measuring.
	Restarts from 0 when overflows.
Counting accuracy:	Gate mode: ±5 counts
	Total mode: ±1 count
Input connector:	Insulated BNC
Analog Output Amp (/	AR-GXAO)
Number of channels:	2
Output format:	Unbalanced
Outnut counting	DC
wasput vouplility.	20
Output level:	±1 to 5 V (variable in 0.1 V steps)
Output level: Zero shift:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps)
Output level: Zero shift: Frequency response:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz
Output level: Zero shift: Frequency response:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency
Output level: Zero shift: Frequency response: Low pass filer:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (_48 dB/oct)
Output level: Zero shift: Frequency response: Low pass filer:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 15.bit without overcampling
Output level: Zero shift: Frequency response: Low pass filer: D/A converter:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC
Output level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC
Output level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 KHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC
Dutput level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector: Thermocouple Input A Number of channels:	±1 to 5 V (variable in 0.1 V steps) to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC Amp (AR-GXTCK/J) 2
Control terror Zero shift: Frequency response: Low pass filer: D/A converter: Output connector: Thermocouple Input / Number of channels: Annicable	th to 5 V (variable in 0.1 V steps) to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC Amp (AR-GXTCK/J) 2 K(AB-GXTCK) L(AR-CYTC I)
Duput level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector: Thermocouple Input / Number of channels: Applicable	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC Xmp (AR-GXTCK/J) 2 K (AR-GXTCK), J (AR-GXTCJ)
Couput level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector: Thermocouple Input / Number of channels: Applicable thermocouple:	±1 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC Amp (AR-GXTCK/J) 2 K (AR-GXTCK), J (AR-GXTCJ) El.
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Content level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector: Thermocouple Input A Number of channels: Applicable thermocouple: Zero point compensation: Range: Low pass filter: AD converter:	The SV (variable in 0.1 V steps) Oto ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC Nmp (AR-GXTCK/J) 2 K (AR-GXTCK), J (AR-GXTCJ) Electronic AR-GXTCK: -50 to 300, -50 to 600, -50 to 1200 °C AR-GXTCJ: -50 to 150, -50 to 300, -50 to 600 °C 5, 10, 20 Hz, PASS (Butterworth, -48 dB/oct.) 16-bit, servesive approximation type
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Converter: Converter: D/A converter: Output level: Zero shift: Frequency response: Low pass filer: D/A converter: Output connector: Thermocouple Input / Number of channels: Applicable thermocouple: Zero point compensation: Range: Low pass filter: A/D converter: Sampling frequency: Power consumption: Input connector:	21 to 5 V (variable in 0.1 V steps) 0 to ±5 V (in 0.1 V steps) DC to 80 kHz Attached filter of 40% of sampling frequency Filter type: Butterworth (-48 dB/oct.) 16-bit, without oversampling BNC Amp (AR-GXTCK/J) 2 K (AR-GXTCK/, J (AR-GXTCJ)) Electronic AR-GXTCK: -50 to 300, -50 to 600, -50 to 1200 °C AR-GXTCL: -50 to 150, -50 to 300, -50 to 600, -50 to 600, 20 to 600, -50 to 600, -50 to 1200 °C 5, 10, 20 Hz, PASS (Butterworth, -48 dB/oct.) 1-Hz to 200 kHz Approx. 1.2 W GIM-KT (AR-GXTCK) from Omega

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To ensure safe handling and operation, read the Instruction Manual before use.

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sales center.

Precautions