### Search Measuring Instruments

#### Select the kind to narrow the selection range

- **Data Loggers/Analyzers**
- **Strain Amplifiers/DC Amplifiers**
- **Instrumentation Amplifiers**

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### Results of Narrowing

66 items were found.

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<thead>
<tr>
<th>Product image</th>
<th>Type</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><img src="image1" alt="Product Image" /></td>
<td><strong>WGA-900A</strong> Instrumentation Amplifiers</td>
<td>Enables Checking Waveform through Easy Operation</td>
</tr>
<tr>
<td><img src="image2" alt="Product Image" /></td>
<td><strong>WGA-670B</strong> Instrumentation Amplifiers</td>
<td>High-speed sampling. The WGA-670B series is compact, low-cost instrumentation amplifiers enabling direct reading of physical quantities such as load through high-speed sampling of signals from a strain gage transducer. All operations can be performed with front-panel keys. While all models in this series provide high/low...</td>
</tr>
</tbody>
</table>
| Instrumentation Amplifiers | WGA-650B | Compact size and low price
The WGA-650B series is compact, low price instrumentation amplifiers enabling direct reading of physical quantities such as loads etc. in combination with a strain gage transducer. All operations can be performed with front-panel keys including high/low limit comparator keys. While all models in this series provide D-A converted signal output, models with additional digital output (BCD) are available.
| WGA-710C | TEDS-compatible, Simple, Lightweight, Excellent Interference Immunity, Suitable for Industrial Measuring Instruments
It is a compact, lightweight, multi-functional and low-cost amplifier with display and it is designed to measure load, pressure, torque and displacement. Using low noise amplifier is helpful to achieve stable measurement. It is easy to conduct setting and control for each function by using keys. Since all setting values are recorded in a NVRAM, it still functions in case of power failure. It has been widely used in machinery, electric machinery, food and chemistry. Apart from production line control system.
※ Cannot be used with TEDS function together with remote signal detection.
| WGI-400A | Compact, 48×96 mm (front surface), Wide measuring range ±3.2 mV/V
The WGI-400A is a compact general-purpose low-cost instrumentation amplifier providing basic functions required for measurement in combination with strain gage transducers. The wide input range ensures usage without worrying about initial value of transducer. Furthermore, it provides new functions such as switchable relative value memory patterns and preset value-based level test.
| WGI-470AS1 | High-speed, compact indicator
High-speed, compact, high functionality measurement display that incorporates a strain gage transducer with optimized functionality in a small case.
Capable of wide range of measurements and control by using press load measurement using high-speed, digital peak hold and load measurement using high resolution.
| 442B-K01 | Printer for instrumentation amplifiers WGA-900A/650B/670B/710C and WGI-400A/470AS1
This instrumentation printer is designed for instrumentation amplifiers WGA-900A/650B/670B/710BC and WGI-400A/470AS1. With the thermal line dot system, it inputs and prints out parallel BCD data, 24 characters per line. The
contents include the date, time, elapsed time and 14 kinds of messages. The built-in calendar clock enables interval print in a range of 5 seconds to 99 hours 59 minutes 59 seconds. (Note that the printer is different from Tsuruga Micro Printer 442B.)

**WGA-200A series Instrumentation Amplifiers**

WGA-200A Series signal amplifier is low cost and for Built-in suitable to be used in industrial equipment

WGA-200A Series signal amplifier can be combined with strain gage transducers and suitable to measure load, pressure, torque and displacement. It is compact, lightweight with high performance and low price. Suitable for industrial equipment

**WGA-100B Instrumentation Amplifiers**

Compact, lightweight, low-cost high performance

Simultaneous output of voltage and current signals

The WGA-100B is a compact, lightweight and low-cost instrumentation amplifier suitable for measurement of load, pressure, torque and displacement in combination with strain gage transducers. Available in 2 types: manual balance and auto balance which is also possible with external contact, the WGA-100B can easily be changed in the excitation voltage, sensitivity, calibration value and frequency response by changing jumper connection.

Simultaneous output of voltage and current signals is possible, no need for switchover.

**WGA-101A Instrumentation Amplifiers**

Compact, lightweight, low-cost, high performance and easy operation simultaneous output of voltage and current signals

The WGA-101A is a compact, lightweight and low-cost instrumentation amplifier suitable for measurement of load, pressure, torque and displacement in combination with strain gage transducers. Available in 2 types: manual balance and auto balance which is also possible with external contact, the WGA-101A can easily be changed in the excitation voltage, sensitivity, calibration value and frequency response by changing jumper connection. In addition, the WGA-101A provides simultaneous output of voltage and current signals and has the monitor terminal which facilitates monitoring voltage signals even after it is incorporated into equipment.

**WIT-100A Weighing Indicators**

Easy-to-see large 6-digit LCD

Affordably priced but display resolution as high as 1/10000

Compact, simple and affordably priced weighing indicator provides 2-way power system.

**WIT-200A Weighing Indicators**

Numeric keys facilitate setting

Connected to a load cell, the printer-equipped weighing indicator can indicate and print each weighed value.
<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGC-140A 4-Channel Signal Conditioner</td>
<td>High-speed processing at 2ms, a compact 4-Channel instrumentation conditioner. Thus, the WGC-140A is suitable for measurement and control of the load applied to each column of press and the total load or for tension control through measurement of load balance and total load in various fields. In addition, the WGC-140C enables multiplication of the total value by a coefficient, thereby facilitating the operator to take emergent countermeasures against transducer trouble by changing the coefficient.</td>
</tr>
<tr>
<td>F08-9026-S2 Measuring Equipment Controller</td>
<td>Highly Universal Controller for tension and compression. Measuring equipment controller is for 2-input measuring equipment controller for compression and tension control in a steel mill. It can display plus/minus calculation results through analog output and wide analog instruments. It is a highly universal measuring equipment controller with unilateral operation function, standard switchover function, comparison function and peak hold function.</td>
</tr>
<tr>
<td>WDC-810C1 Measuring Instrument Controller</td>
<td>Thin design and suitable for compression and tension control. Measuring Instrument Controller is suitable to measure compression and tension load detected by load transducers that are mounted on a steel mill. It is a load transducer amplifier to output voltage and current signals according to a certain format specified in CPU. Because of its thin design, it can be used together with different transducers. Through keyboard, users can carry out setting and command input. The controller can not only output basic form A, compression and tension load of Bside load transducer (A and B outputs separately), compression load (A+B and output), compression load balance (A-B output) but also output plus only, minus only or plus and minus. It is able to output according to the requirements of lines. This Measuring Instrument Controller has more than 1 CPU, but has output for 8 systems including CPU for measuring instruments, control and electrical system. Setting value can be written in non-volatile memory in case of power cut. Users do not need to use keyboard to input constants again. Meanwhile, it is able to adopt a flexible corresponding method for compression load measurement and load transducer measurement or control.</td>
</tr>
<tr>
<td>WDC-200C series Instrumentation Conditioners</td>
<td>Compact design ensures efficient use of the panel. High tolerance for noise suitable for use on production lines. The WDC-200C series is instrumentation conditioners for use with strain gage load cells. The</td>
</tr>
</tbody>
</table>
dual output enables simultaneous output of voltage and current signals. The originally developed circuit automatically cancels any zero drift of the amplifier circuit and unnecessary thermoelectromotive force generated in the input system including a load cell, junction box and cable, thereby ensuring stable operation irrespective of ambient temperature changes. To enable use in a wide range of instrumentation fields, abundant additional functions are available including a remote zero adjuster, remote calibration circuit setting device, input/output protector and isolation amplifier.

Designed to be mounted into the operation panel, the WDC-200C series has the front panel composed of input and output terminals only, thereby facilitating instrumentation task and operation. In addition, the compact package ensures increased efficiency of the operation panel. The WDC-200C series is suitable as a long-distance transmission preamplifier or transmitter.

<table>
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<tr>
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<tbody>
<tr>
<td><strong>WDS-180A</strong> Compact Digital Indicators</td>
<td>Suitable for simple measurement of load, pressure or displacement in combination with a transducer. Two models are available for constant voltage or constant current type. Enable reading in N, Pa or mm</td>
</tr>
<tr>
<td><strong>WDS-185AS1</strong> Compact Digital Indicators</td>
<td>Suitable for simple measurement of load, pressure or displacement in combination with a transducer. Two models are available for constant voltage or constant current type. Enable reading in N, Pa or mm</td>
</tr>
<tr>
<td><strong>WDS-500B</strong> Sensor Checker</td>
<td>A compact sized checker is able to check a strain gage type transducer and a strain amplifier</td>
</tr>
<tr>
<td><strong>SDB-410CS</strong> Handy Digital Indicator</td>
<td>Compact, Lightweight, Suitable for on site Application SDB-410CS is compact, light weight and it has high accuracy. It is a portable transducer indicator with excellent performance. Besides strain measurement function (1, 2, 4 strain gage methods), it has a built-in insulated resistance abnormality detection circuit, which can detect status with 10MΩ or less and alarm in case of displacement adjustment.</td>
</tr>
<tr>
<td><strong>HSC-BS</strong> Small-sized Hybrid Signal Conditioners</td>
<td>Highly accurate and reliable compact amplifiers offered at affordable prices Designed for strain gages and strain-gage transducers, the compact hybrid amplifiers can</td>
</tr>
</tbody>
</table>

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directly be mounted to circuit boards. External resistors enable adjustment of bridge excitation voltage, zero balance and gain. They can be used as preamplifiers of control signals for production equipment.

CAB-E
Strain Generators

A compact and light weight strain generator for checking strain amplifiers. The CAB-E is a compact and lightweight device, which generates equivalent strains to check strain measuring instruments. A generated strain level can be set with STRAIN and RANGE dials in combination. The CAB-E is compatible with remote sensing. Power supply is not necessary.

WDS-10
Strain Generators

Compact, lightweight. For check strain gage measuring instruments. The WDS-10 is an equivalent strain generator for checking strain measuring instruments. It can continuously generate equivalent strain with positive or negative polarity selected by the switch. The dials operate in digital steps. The compact and lightweight design ensures convenient use anywhere.

SJB-C
Junction Boxes

Cable connections for load cells and more intensive use of inputs. A junction box is used when connecting a load cell and amplifier using an extension cable or when connecting cables of multiple load cells to an amplifier using a single cable for weighing a tank or hopper. The SJB-C/D are designed for general purpose and the JBS-C is for use under hazardous, and explosive environment.

SJB-D
Junction Boxes

Cable connections for load cells and more intensive use of inputs. A junction box is used when connecting a load cell and amplifier using an extension cable or when connecting cables of multiple load cells to an amplifier using a single cable for weighing a tank or hopper. The SJB-C/D are designed for general purpose and the JBS-C is for use under hazardous, and explosive environment.

JBS-C
Junction boxes

Cable connections for load cells and more intensive use of inputs. A junction box is used when connecting a load cell and amplifier using an extension cable or when connecting cables of multiple load cells to an amplifier using a single cable for weighing a tank or hopper. The SJB-C/D are designed for general purpose and the JBS-C is for use under hazardous, and explosive environment.

DPM-900 series

Strain Amplifier with high stability and accuracy, also
<table>
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<tr>
<th>Device</th>
<th>Description</th>
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<tbody>
<tr>
<td>Strain Amplifiers</td>
<td>with high frequency response from DC to 10kHz (913B)</td>
</tr>
<tr>
<td>DPM-950 series Strain Amplifiers</td>
<td>Strong Against Inverter Noise, Easy Operation</td>
</tr>
<tr>
<td>CDV-900A Signal Conditioners</td>
<td>High S/N is ensured by the strain DC amplifiers</td>
</tr>
<tr>
<td>CDA-900A Signal Conditioners</td>
<td>High S/N is ensured by the strain DC amplifiers</td>
</tr>
<tr>
<td>DA-710A DC Amplifier</td>
<td>Highly accurate 2-channels isolated DC amplifier</td>
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<td></td>
<td>High input impedance, high gain accuracy and low cost</td>
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<td></td>
<td>The DA-710A is a highly accurate 2-channel isolated DC amplifier which satisfies requirements for high input impedance, high gain accuracy and low cost.</td>
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<td></td>
<td>Since the channels are isolated from each other, the DA-710A can effectively be used for measurement if the 2 channels are connected to different signal sources. In addition, input-output isolation ensures excellent stability and outstandingly minimizes noise effects. The allowable common mode input voltage is ±300 VDC, while setting the attenuation switch to 1/100 makes the maximum allowable input voltage ±110 VDC. Furthermore, high-frequency components can be eliminated by the low-pass filter for measurement at a high SN ratio.</td>
</tr>
<tr>
<td></td>
<td>Thus, the DA-710A can be used for various purposes including general minute voltage measurement, temperature measurement in combination with a thermocouple, and as a preamplifier for recorders and data processors.</td>
</tr>
<tr>
<td>ERK-100 series Telemetry</td>
<td>Enable telemetry transmission of strain-gage transducer signals</td>
</tr>
<tr>
<td>Transducers</td>
<td></td>
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</tbody>
</table>
| **MRT-400 series**  
**Compact Digital Telemetry System** | Suitable for torque measurement of rotating object
The system was developed for measurement of torque on rotating objects. Compared to conventional slip ring systems, it is easier to operate and less affected by noises due to thermoelectromotive force and irregular rotation.
The system is composed of a transmitter, transmitter battery (lithium battery, etc.) and a receiver.
The transmitter to which a strain-gage bridge can directly be connected transmits measured strain data with the digital radio modulation mode.
The receiver wirelessly receives the data and outputs the data after performing digital-to-analog conversion. |
| **MCE-24A series**  
**Online Conditioner System** | PC is not included
Enable measurement in a maximum 24 channels.
The system can easily be set up through the PC. Thus, it is most suitable for use with a system under online control or for configuration of a measuring system of multiple channels. Applicable sensors that depend on mounted conditioner cards include strain gages, strain-gage transducers, voltage-output sensors, AC signal-output sensors, thermocouples and piezoelectric acceleration transducers. Mount desired cards to the unit base, and you can measure different types of signals in a variety of combinations. The cards can easily be exchanged, thereby enabling users to configure an original system for each individual measurement purpose. Also, up to 20 units can be placed under the control of PC for synchronized measurement in a maximum 480 channels. Furthermore, while providing multiple channels, this conditioner system is offered at an affordable price. |
| **MCD-A Series**  
**Multi Conditioner Systems** | Monitor card equipped with a large digital indicator
Outstanding vibration resistance enables Onboard application
The Multi Conditioner MCD-A is a portable and flexible system capable of accommodating 8 or 16 conditioner cards. Selection of optimum cards from among 6 different kinds enables economical system configuration to the exact requirements for each individual application.
Easy operation and excellent vibration resistance make it usable conveniently outdoors for up to 16-channel simultaneous measurement of various physical quantities. |
| **CDV-400B Series**  
**Small-Sized Signal** |   |
UCAM-550A Series
Fast Data Logger

Simultaneous sampling at 50Hz of all channels
UCAM-550A is a high-speed data logger system
that can repeatedly measure a maximum of 1000
channels at an interval of 0.02 seconds.
Because this is capable of high-speed synchronous
measurement, this unit can measure a wide range
of phenomena, from static to dynamic phenomena.
The following 3 types of measuring units are
provided.
● Strain unit USS-51B (potentiometer type sensor
  also supported)
● Voltage unit USV-51B
● Thermocouple unit UST-51B
These support strain gages, strain gage
transducers, voltage output sensors, potentiometer
type sensors, and thermocouples, these can
measure and collect strain and stress, load,
pressure, and displacement, as well as voltage and
temperature.
No. of measuring channels is for 1 unit a maximum
of 50 channels, and with 20 units cascaded, a
maximum of 1000 channels, and this is suited to
small through to large-scale measurement.

UCAM-500B Series
Fast Data Logger

Maximum 1000 measuring channels. Flexibly coping
with small to large scale measurement
The UCAM-500B is a fast data logger system which
can simultaneously sample variables at multiple
points at a maximum rate of 50 times per second.
The system is composed of fast data logger
scanner(s) USB-500A, the fast data logger
controller UCAM-500B which records measured
data at high speed, and a PC in which the control
software UCS-60B is installed for setting, controlling
and data collection. The scanner and controller are
black boxes having no operating switches and
controls.
Scanning speeds include 1 time per second for
1000 channels and 50 times per second for 100
channels, making the system applicable for
measurement of static to quasi-dynamic
phenomena. In addition, the strain unit, voltage unit
and temperature unit can be mounted to the
scanner, enabling the system to connect to strain
gages, strain gage transducers, potentiometer
sensors, voltage-output instruments and
thermocouples. The scanner provides a maximum 50 channels and the controller can connect to a maximum 20 scanners, enabling the system to measure variables at a maximum 1000 points. Signals from sensors are digitized by A-D converters in the scanner, and then transferred to the controller via the dedicated interface. The controller stores the data in a built-in semiconductor memory and whenever commanded from the PC, the controller transfers the data to the PC. Since control commands of the controller are disclosed, users can create their original software to configure the optimum system for a specific measuring purpose.

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<th>NTB-500A Series</th>
<th>Medium speed sampling support for all channels simultaneously</th>
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<tr>
<th>NTB-100/200 Series</th>
<th>A revolutionary concept of measurement has emerged</th>
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<tbody>
<tr>
<td>NTB-100A Series network terminal boxes</td>
<td>Signals from a sensor are usually digitized through an amplifier and A/D converter via a bridge box, and the digital data is processed on a computer or a dedicated system. NTB-100A Series network terminal boxes revolutionize this process signals from a sensor are immediately digitized and fed to a computer for data processing. These NTBs not only streamline signal processing, but also contributes to eliminating extra cable thereby reducing cost of labor and installation. By placing an NTB near a sensor, only a single communication cable is required to build a wide area network (a total distance of 1 km), which is also useful because the digital transmission is hardly affected by noise. A single unit can measure 4 channels, and up to 8 units can be connected, for measurement of a maximum of 32 channels is possible. The NTB, which directly connects various sensors including strain gages, facilitates digital measurement in the field such as construction or building site, or for indoor experiments and researches. Handy logger SME-100A allows a wider range of measurement with its.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SME Series</th>
<th>Connect the SME-100A/101A to the NTB-100A series for digital measurement of 33 channels. Simplified operation is a unique feature of this handy data logger. You can start measurement just after turning on the power. The strap is useful for field inspection and confirmation of sensor installation. The SD card (option) simplifies data transmission to a PC. Using the input cable attached to this instrument, a strain gage can easily be connected.</th>
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<tbody>
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<td>Product</td>
<td>Description</td>
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</tr>
<tr>
<td>EDT-200B Web Data Loggers</td>
<td>Enable users to access field data on exclusive website. Web data loggers EDT-200B/EDT-210B are designed to automatically transmit variables detected by distantly placed sensors, to an exclusive website through Internet. Thus, these loggers eliminate the need for data collection in the field and enable centralized data management. Furthermore, to contracting users, KYOWA provides such services as data review, waveform display and file download through the exclusive website.</td>
</tr>
<tr>
<td>EDT-210B Web Data Loggers</td>
<td>Enable users to access field data on exclusive website. Web data loggers EDT-200B/EDT-210B are designed to automatically transmit variables detected by distantly placed sensors, to an exclusive website through Internet. Thus, these loggers eliminate the need for data collection in the field and enable centralized data management. Furthermore, to contracting users, KYOWA provides such services as data review, waveform display and file download through the exclusive website.</td>
</tr>
<tr>
<td>DBU-120A Bridge Unit</td>
<td>1 Channel PC Control Type&lt;br&gt;The DBU-120A is an online measuring instrument connected to the PC via USB port. Like a bridge box, it has push-fit terminals on the top panel, enabling direct connection of strain gage or strain gage transducer. It also has an NDIS connector for one-touch connection to a transducer. The DBU-120A has built-in amplifier and A-D converter and be controlled by PC with standard control software. Because of power supply via USB interface, the DBU-120A doesn't require AC power supply. Applicable sensors are strain gages, strain gage transducers and voltage-output sensors. Due to sampling frequency range from 1kHz to maximum 20kHz, The DBU-120A can measure various phenomena from static to dynamic, such as vibration and impact. Also, the DBU-120A is suitable to small-scale experiments in schools.</td>
</tr>
<tr>
<td>PCD-430A Sensor Interfaces</td>
<td>Connect the sensor interface to a PC via USB port. The PC will be a measuring instrument. Up to 4 units can be stacked for measurement in 16 channels.</td>
</tr>
<tr>
<td>PCD-400A Sensor Interfaces</td>
<td>Connect the sensor interface to a PC via USB port. The PC will be a measuring instrument. Up to 4 units can be stacked for measurement in 16 channels.</td>
</tr>
</tbody>
</table>
PCD-300 Series Easily Make a PC a Measuring Instrument
The sensor interface PCD-300 series is a measuring instrument that can easily carry out measurements simply by connecting to a PC using a USB interface.
There are 7 types of sensor interface, and stress measurement using a strain gage, PCD-300B (-F)/PCD-301B (-F)/PCD-330B-F/PCD-331B-F that can measure force, pressure, acceleration, and displacement using a strain gage transducer, and the PCD-320A that can measure voltage. Directly connect the strain gage and voltage output sensor to the input terminal and input adapter on the back, and start the included dynamic data acquisition software (DCS-100A) to convert the PC to a measuring instrument. Operation is fully interactive using the PC, and by connecting the sensor and carrying out a minimal amount of settings, it is possible to obtain engineering unit data. This is capable of 4 channels of recording from 1 sensor interface unit. Furthermore, connecting the units using a synchronization cable enables expansion up to 4 units measuring 16 channels, meaning this is most suited to small-scale measurement. Our construction of a compact and highly versatile measurement system provides a measurement tool that can be used in a range of situations, from simple experiments through to high-level measurements.

EDS-400A Compact Recorder
Compact and lightweight. 4-channel measurement with one unit
Connected to strain gages, strain gage transducers and voltage-output sensors, the EDS-400A digitally records 4 channels of dynamic variables at high speed via built-in signal conditioners and 16-bit A-D converters. It can be set up from the PC via LAN or by inserting the CF card in which measuring conditions are written beforehand. Variables under measurement are digitized and saved in the CF card. If required, the data can graphically be monitored on the PC connected via LAN. Saved data can be transferred to the PC, online via LAN or offline via CF card.
The software, a standard provision, enables the PC to present the data on graphic window, while the optional data analysis software DAS-200A enables data analysis in various ways.

EDX-10A Series Compact recording system
Compact, lightweight, with a simple configuration, all channels simultaneous 20kHz high-speed sampling (for 4 channels)
The EDX-10A series compact recording system is measuring instruments that measure simply by
being connected to a PC using the USB interface. There are three types of measuring unit; the EDX-11A that measure with strain gage type transducers, pressure, displacement, etc. The EDX-12A that measure voltage, and the EDX-13A that measure temperature with a thermocouple. As single unit can be powered by USB interface, a separate power supply is unnecessary. With stacked connection, a synchronization cable is unnecessary, it realized wiring-saving. A single unit enables 4 channel measurement, can be expanded up to 16 channels, which suitable for small scale measurement.

<p>| EDX-100A Universal Recorders | Compact and Lightweight, up to 256 channels measurement Available with 1, 2 or 4 slots, the EDX-100A is a universal recorder that enables flexible configuration and free arrangement while ensuring multiple functions. The wide application range extends from small-scale measurement of 8 channels to large-scale measurement of up to 256 channels by connecting 4 units of EDX-100A. For PC connection, LAN and USB ports are provided. The LAN port enables PC to control up to 4 units of EDX-100A, while the USB port ensures easy connection between EDX-100A and PC. In addition, EDX-100A can be operated as a stand-alone unit without PC. A compact flash memory card enables condition setting and data collection. To respond to the need for a wide variety of measurements, 6 different types of conditioner cards are available. |
| EDX-200A-1 Universal Recorders | The EDX-200A-1 is a new portable universal recorder with real-time processing functions such as dual sampling and digital filtering. |
| EDX-200A Universal Recorders | Improved real-time processing function with high-speed DSP |
| Multichannel CAN Card | CAN Measuring Card for Optional Slot of EDX-200A-2H/4H With this card installed in the optional slot, CAN input of up to 512 channels can be added without sacrificing the number of analog input channels |
| EDB-41B EDX-100A/200A Instantaneous stop battery units | Supply power against instantaneous power failure, thereby enabling continuous data acquisition without interruption. |</p>
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDX-2000B</strong></td>
<td>Memory Recorder/Analyzers</td>
</tr>
<tr>
<td><strong>EDX-3000A</strong></td>
<td>Memory Recorder/Analyzers</td>
</tr>
<tr>
<td><strong>EDX series conditioner card</strong></td>
<td>EDX-100A, 200A, 2000, 3000A conditioner card specifications</td>
</tr>
<tr>
<td><strong>MCA-200A</strong></td>
<td>Combined G-resistant data logger</td>
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</tbody>
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**EDX-2000B**

- All-in-one measuring instrument
- The EDX-2000B is a general purpose, expandable, all in one instrument that can measure, monitor, record, and process signals detected by various sensors. It is available in 32 channel type and 64 channel type.
- The EDX-2000B starts measuring according to preset conditions and can simultaneously sample signals in 16 channels at 200 kHz (32 channels at 100 kHz).
- The recorded and processed data can easily be transferred online or offline to the PC. Furthermore, the EDX-2000B enables recording of voice memos, analog reproduction of recorded data with an optional DA card, and recording of CAN data with an optional CAN card.

**EDX-3000A**

- High-Speed Sampling at 200kHz/32 Channels (100kHz/64 Channels) and Simultaneous Recording of Moving Image with a High-speed Camera
- EDX-3000A is an advanced stationary measuring instrument having sophisticated features and high speed processing capabilities.
- It is the highest-end model of EDX Series. Both online and offline control is available, and with an optional display and keyboard, it can be used as an all-in-one logger.
- Software having the similar functionality with well received dynamic data acquisition software DCS-100A is installed in this model for monitoring and recording measurement data in a variety of graph windows, and at the same time, enabling simultaneous recording of measurement data and moving images as well as rosette analysis and other arithmetic operations.

**EDX series conditioner card**

- EDX-100A, 200A, 2000, 3000A conditioner card specifications

**MCA-200A**

- Build-in signal amplifier Maximum 256 measuring channels
- Measure up to 256 channels with G-resistant amplifiers. Combine all types of amplifiers to connect sensors of strain gage, voltage, and thermocouple. The A-D conversion is built-in and maximum sampling frequency is 100kHz enabling high speed applications.
<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMD-200B</td>
<td>Indicator for Pipe Strain Transducer</td>
<td>Highly accurate digital indicator of compact and lightweight handy type. This digital indicator ensures highly accurate measurement. The compact and lightweight design makes it suitable to carry into the field.</td>
</tr>
<tr>
<td>RMH-301B</td>
<td>Digital Strain Recorder</td>
<td>Suitable for long-term measurement in the absence of personnel under the environment without external power supply. Digital strain recorder RMH-301B is a battery-powered data collection device with low power consumption, suitable for long-term measurement in the absence of personnel at the places without external power supply such as long-distance mountainous and heavy-snowfall area. Enables to strain gage civil engineering transducers and civil engineering transducers with temperature measurement function and single-channel measurement. Equipped with operation panel and display enables operation relating to measuring condition setting and measurement. Data can be collected via USB memory. Data can be easily collected at site just by inserting USB disk. In addition to original forms, data can be saved in CSV format. The optional software (RMH-390A) can be used to control computer and collect data through USB interface.</td>
</tr>
<tr>
<td>RMH-310A</td>
<td>Digital Strain Recorder</td>
<td>Suitable for long-term measurement in the absence of personnel under the environment without external power supply. RMH-310A is a battery-operated digital strain recorder featuring low power consumption. Thus, it is suitable for unattended long-term measurement in remote places, mountainous regions and heavy snowfall districts where no power supply is available. This 10-channel recorder can connect to strain gage civil engineering transducers, civil engineering transducers with temperature measuring function and thermocouples. The operating panel and display enable the user to set measuring conditions and perform measurement-related operation. On-site data collection can be performed with just bring a USB into the spot.</td>
</tr>
<tr>
<td>NS-H</td>
<td>Bridge box</td>
<td>Up to 24 channels. Connected to multiple strain-gage civil engineering transducers, these switch boxes enable selection of a measuring point, channel to channel.</td>
</tr>
<tr>
<td>SS-R</td>
<td>Bridge box</td>
<td>Up to 24 channels. Connected to multiple strain-gage civil engineering transducers, these switch boxes enable selection of a measuring point, channel to channel.</td>
</tr>
</tbody>
</table>
SGI-100A
Strain gage amplifier for lecture

Designed to digitally indicate strain quantity detected by strain gages. It also provides voltage output for reviewing measured waveforms on an oscilloscope or recorder.

* This product is sold in Japan market only.
* This product is just for educational purpose. Please do not use it when you need a reliable measurement.

WGA-120A
Carrier Type Instrumentation Amplifiers

WGA-120A is a compact, lightweight and affordably priced carrier instrumentation amplifier that is suitable for measurement of load, pressure, torque or displacement in combination with a strain-gage transducer. While available in a manual or auto balance version, it enables easy switchover of bridge excitation, sensitivity adjustment range, calibration value or frequency response by changing jumper connections.

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