

Data Loggers

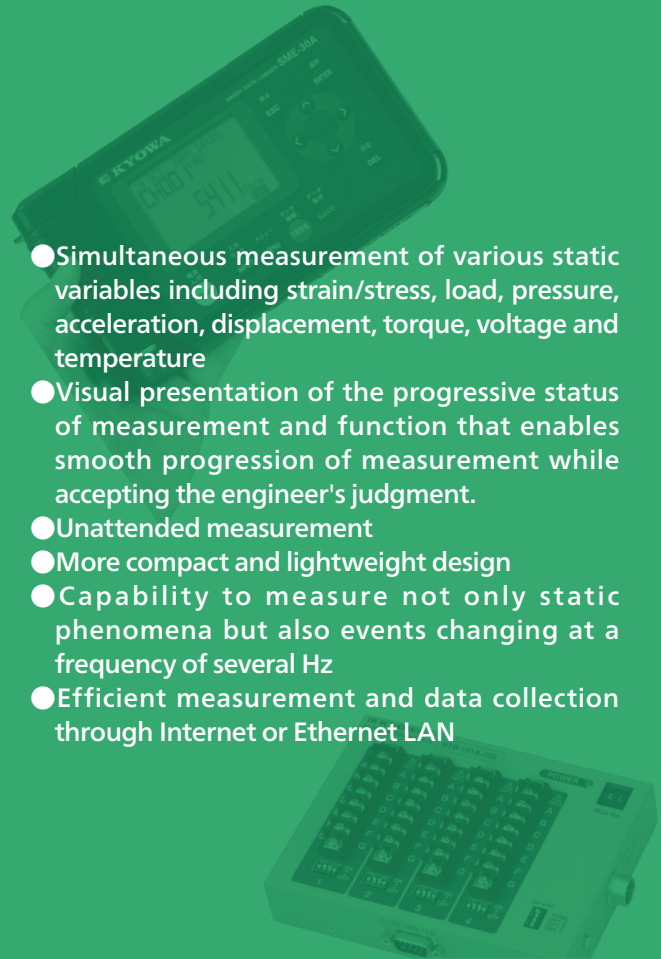
Data loggers are designed to measure static strain, a phenomenon where the subject strain does not change at all or slowly changes. As seen in load tests of large-scale structures, static strain is often measured in several hundred channels and under dozens of load conditions.

Data loggers are available in 2 types: stand-alone and PC-controlled. Both are oriented to automatic multi-channel measurement as intelligent, expandible systems.

A data logger can stably measure microvolt signals in strain/stress measurement indoors and outdoors. Besides that advantage, some data loggers have a processing capability incorporated into the portable package.

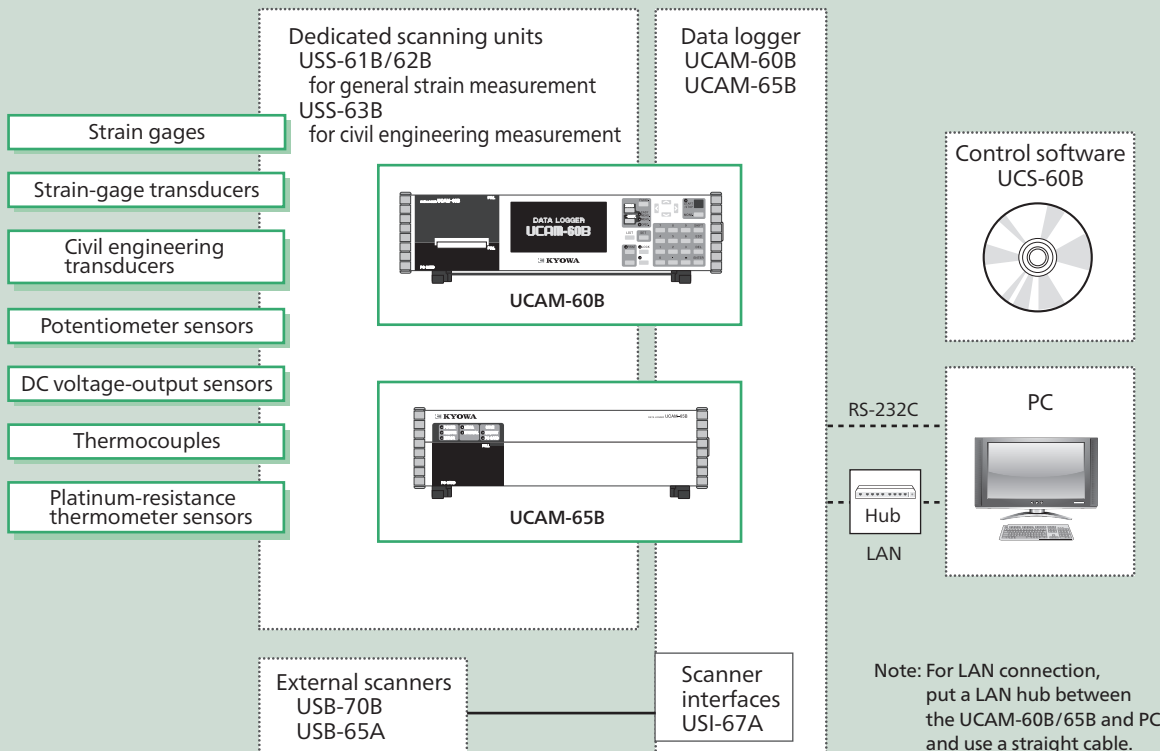
Advancements in electronic components, progress in multimedia in information-related fields and downsizing of equipment have generated the following demands:

- Simultaneous measurement of various static variables including strain/stress, load, pressure, acceleration, displacement, torque, voltage and temperature
- Visual presentation of the progressive status of measurement and function that enables smooth progression of measurement while accepting the engineer's judgment.
- Unattended measurement
- More compact and lightweight design
- Capability to measure not only static phenomena but also events changing at a frequency of several Hz
- Efficient measurement and data collection through Internet or Ethernet LAN



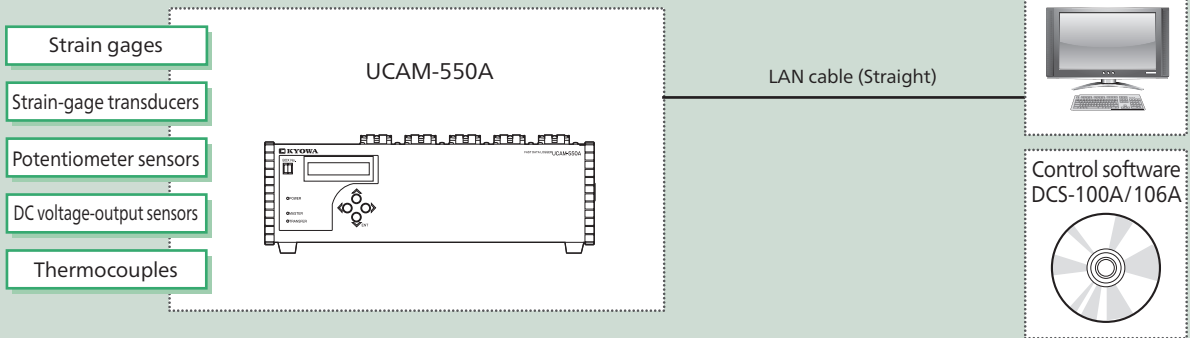
Static Strain Data Loggers

UCAM-60B, Universal Stand-alone Type
UCAM-65B, Online Type

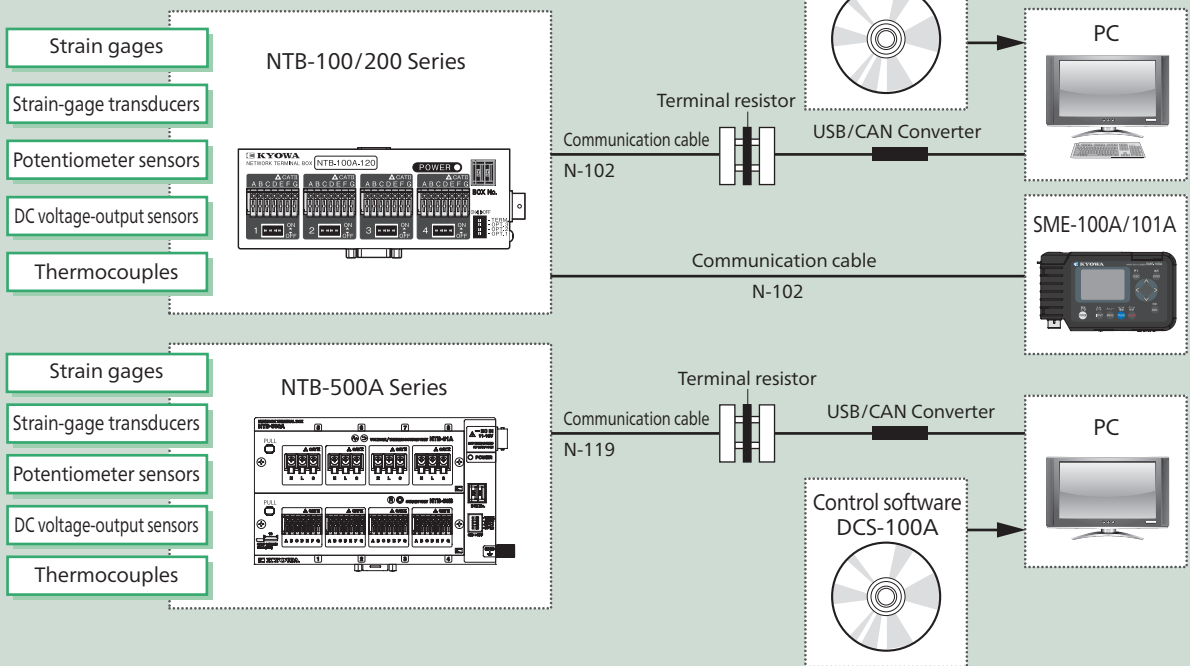




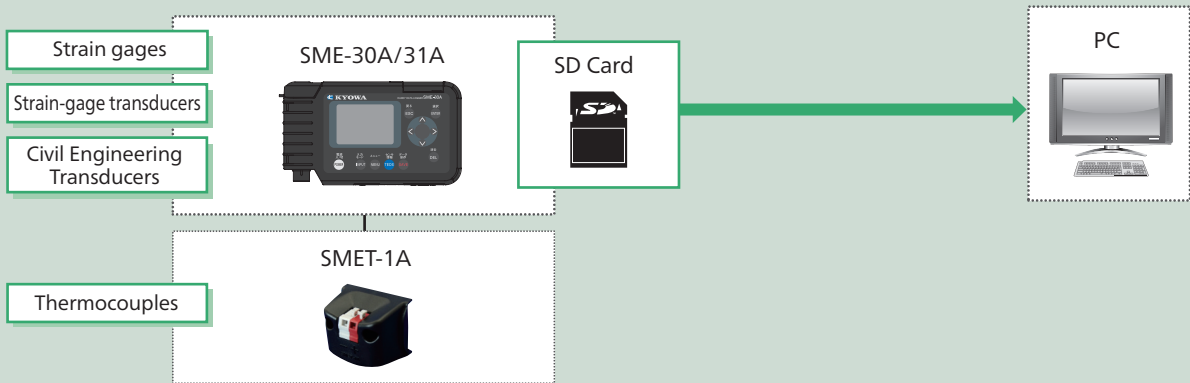
Fast Data Logger UCAM-550A for Online Static Strain Measurement









Network Terminal Boxes NTB Series



Portable data logger SME-30A/31A



Data Logger Selection Chart

Models	Max. channels	Scanning Speed (s)								Measuring Targets	Interfaces	Power Supply	Pages
		0.02	0.05	0.28	0.5	1	2	5	10				
All-in-one Data Logger UCAM-60B PC-Controlled Data Logger UCAM-65B  Resolution as high as 0.1 μm/m	1000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Strain gages Strain-gage transducers Civil engineering transducers (Maybe with a thermal sensor) Potentiometer voltage Voltage-output sensors Temperature (Thermocouples platinum-resistance temperature sensors)	LAN RS-232C PC card	100 to 240 VAC or 10 to 16 VDC	3-25
Fast Data Logger NEW UCAM-550A  Synchronous* sampling of 100 channel at 50 Hz * Except temperature measurement using USM-51B or USM-52B	1000									Strain gages Strain-gage transducers Potentiometer voltage Voltage-output sensors Thermocouples	LAN	100 to 240 VAC	3-31
Medium speed network Terminal box NEW NTB-500A 	64									Strain gages Strain-gage transducers Voltage Thermocouples	USB (USB/CAN Converter)	11 to 16 VDC	3-35
Network Terminal Box NEW NTB-100/200 Series  Field measurement is digitized.	396				Yes	Yes				Strain gages Strain-gage transducers Civil engineering transducers (Maybe with a thermal sensor) Voltage Thermocouples	USB (USB/CAN Converter)	11 to 16 VDC	3-37
Handy Data Logger SME-30A/31A  Easy to operate Portable data logger	1				Yes	Yes				Strain gages Strain-gage transducers	SD card	AA size alkaline batteries (2 pc.) SME-31A is compatible with AC adapter	3-43
Handy Data Logger SME-100A/101A 	33				Yes	Yes				Strain gages Strain-gage transducers	SD card	AA size alkaline batteries (2 pc.) SME-101A is compatible with AC adapter	3-42