

# Delivery case examples for GL Series Products

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**GL200**



**GL800**

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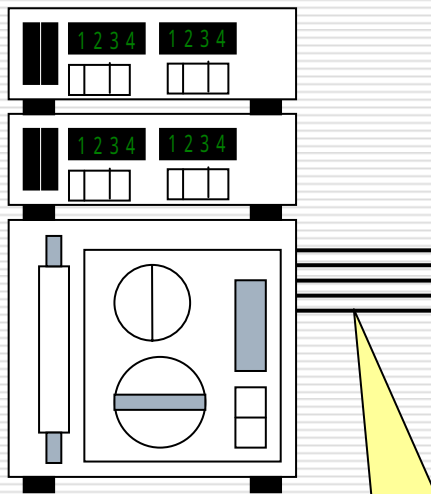
**GRAPHTEC**

# GL800

## Measurement of output from exhaust-gas concentration tester

The GL800 collects and stores analog data output from analyzers, including an exhaust-gas concentration tester in the research laboratory of a certain gas utility company. The customer introduced the GL800 as a substitute for its current analog X-Y recorder.

Exhaust-gas concentration tester



Analog voltage output



Conventional tester



### <<Decision points in purchasing>>

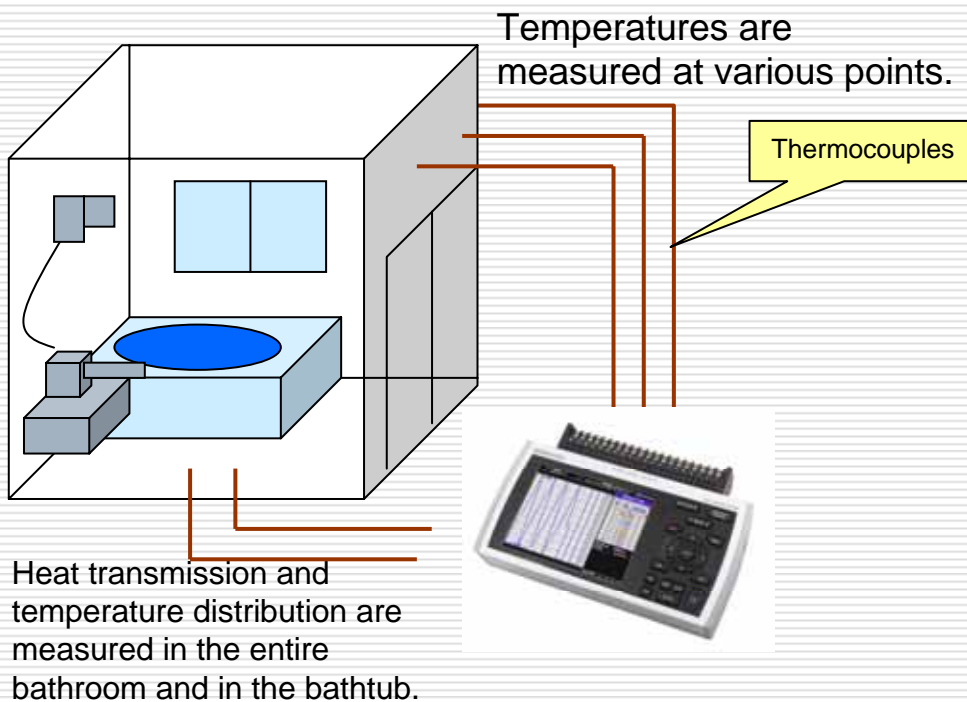
- 1: Voltage measurements can be converted into physical quantities.
- 2: The user can designate any physical unit.
- 3: Consumable parts costs can be reduced, thanks to paper-free design.
- 4: Data processing can be easily executed on a PC.

**GL800**

# Measurement of temperatures in development of unit bath

A manufacturer of unit baths, lavatories, and washstands uses the GL800 to measure temperatures during product development.

The GL800 measures various parameters within a unit bathroom, including heat transmission and temperature distribution of a bath tub.



## <<Decision points in purchasing>>

- 1: The device supports multi-channel measurement.
- 2: The product is available at a reasonable price.
- 3: Data processing can be easily executed on a PC.

# GL200

## On-board measurement for all-terrain vehicles and snowmobiles

A manufacturer of all-terrain vehicles and snowmobiles uses the GL200 for on-board measurement during product development.

The GL200 is installed inside a special box mounted to the rear of the driver's seat, to measure the required parameters.



<Parameters measured>

Oil pressure  
Oil temperature  
Fuel flow  
Exhaust-gas  
temperature



### <<Decision points in purchasing>>

- 1: The device features a compact design.
- 2: The device is driven by a DC power supply.
- 3: The device is driven by batteries
- 4: The device supports pulse input.
- 5: Target parameters can be measured through multiple channels.

# GL200

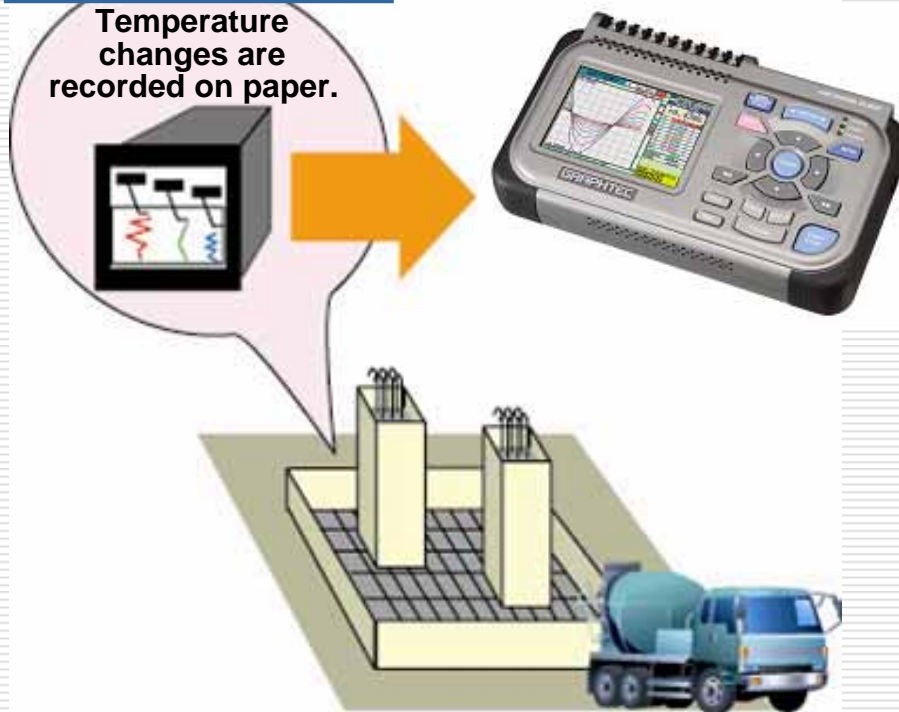
## Measurement of temperatures in concrete curing

The GL200 is used to control concrete curing temperature in civil works.

The GL200 allows for temperature control in various fields of construction, including work on bridges, buildings, and roads.

### Conventional approach

Temperature changes are recorded on paper.



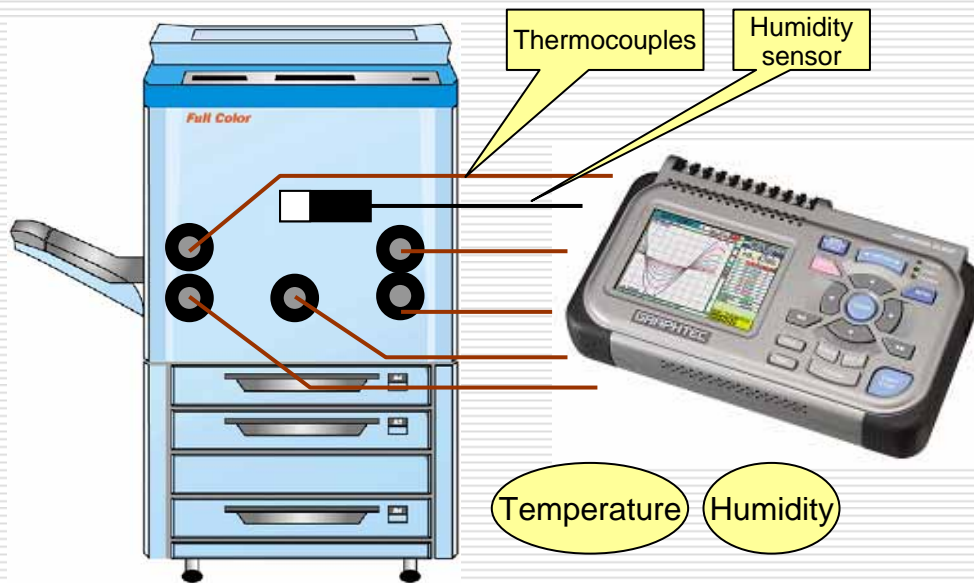
### <<Decision points in purchasing>>

- 1: The device features a compact design and multi-channel measurement.
- 2: The device supports file formats in which data cannot be modified.
- 3: The included software allows graphic display and printer output.
- 4: Inexpensive sensors (thermocouples) can be used.
- 5: The product is available at a reasonable price.

# GL200

## Measurement of copier temperatures and humidity

In climates of high environmental temperature and humidity, the sheets will become moist, leading to problems. In running tests implemented under such environmental conditions, the GL200 is used to measure both temperature and humidity near the imaging drum.



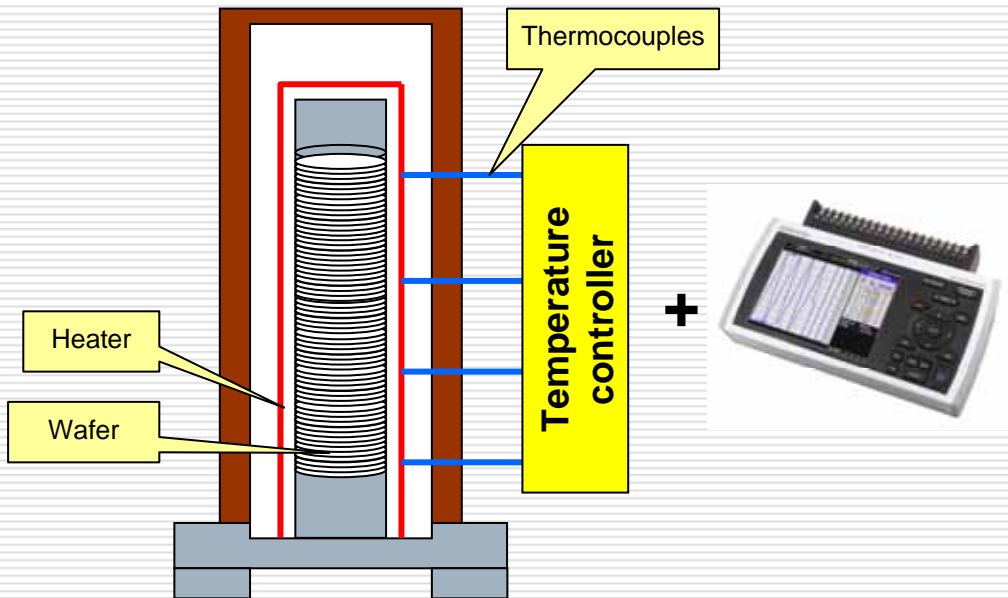
### <<Decision points in purchasing>>

- 1: The device supports measurement with a humidity sensor.
- 2: The device supports multi-channel measurement.
- 3: The device features a compact design and easy handling.
- 4: Data reduction can be easily executed on a PC.
- 5: The product is available at a reasonable price.

# GL800

## Measurement of temperatures in thin-film processing

To maintain a constant temperature distribution on a silicon wafer during thin-film processing, the GL800 is used to measure the workpiece temperature at various points.



### <<Decision points in purchasing>>

- 1: The device supports multi-channel measurement.
- 2: The device is easy to operate.
- 3: The product is available at a reasonable price.
- 4: Data analysis can be easily executed on a PC.

**GL800**

# Measurement of temperatures in conveyor drying furnace

The GL800 is used to measure the temperature distribution at various points in a conveyor drying furnace that has been introduced in a certain production line.



Thermocouples



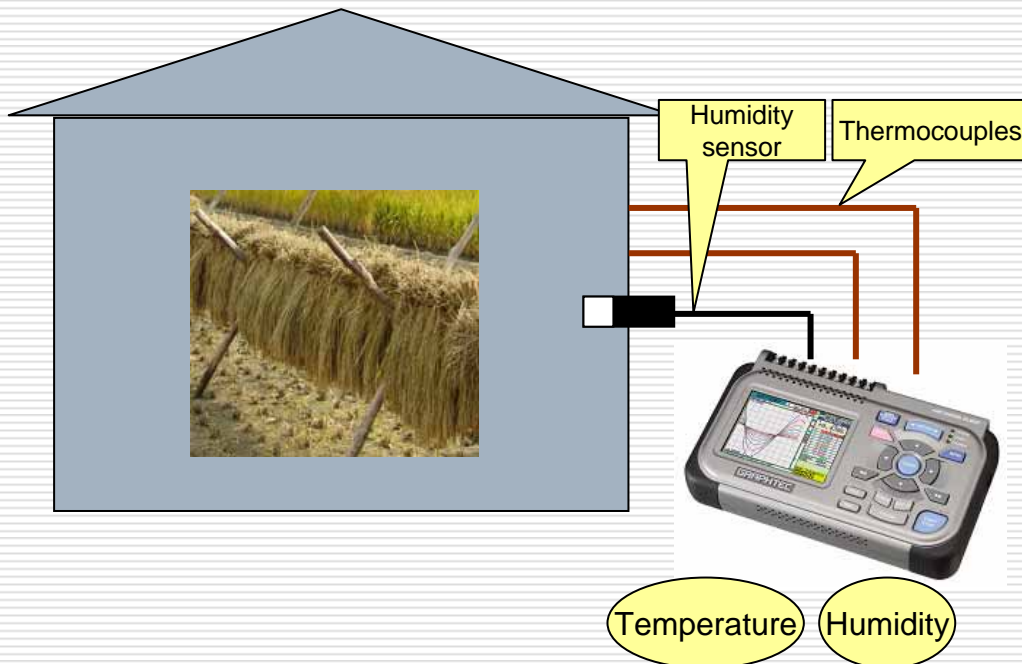
## <<Decision points in purchasing>>

- 1: The device supports multi-channel measurement.
- 2: The device is easy to operate.
- 3: The product is available at a reasonable price.
- 4: Data analysis can be easily executed on a PC.

**GL200**

## Measurement of moisture in rice

To measure changes in the moisture content of rice, cropped unhulled rice is left in a warehouse for several weeks. The GL200 is used during this time to measure temperature and humidity in the warehouse.



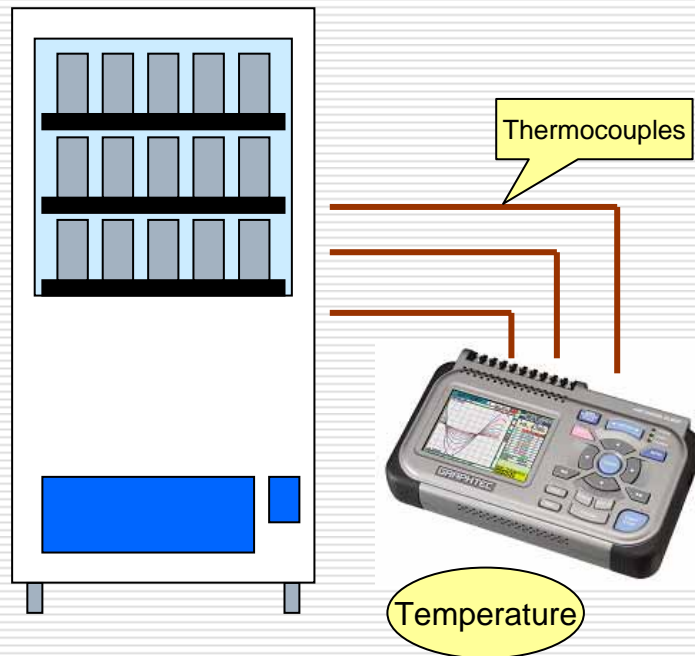
### <<Decision points in purchasing>>

- 1: The device supports multi-channel measurement.
- 2: The device supports humidity measurement.
- 3: The device permits long continuous measurement.
- 4: The device is user-friendly.
- 5: Data analysis can be easily executed on a PC.

**GL200**

# Measurement of temperatures in vending machines

The GL200 is used by the vending-machine maintenance team of a certain soft drink supplier. The GL200 measures the temperatures of the heating element and of the cans of beverages in malfunctioning machines (specifically, to assess the uniformity of temperatures).



## <<Decision points in purchasing>>

- 1: The device supports multi-channel measurement.
- 2: The device is driven by batteries.
- 3: The device is user-friendly.
- 4: Reports can be easily generated on a PC.

**GL200**

# Measurement of furnace temperatures

The development team of a certain steel manufacturer uses the GL200 to measure temperatures in test furnaces.



Thermocouples

Temperature

## <<Decision points in purchasing>>

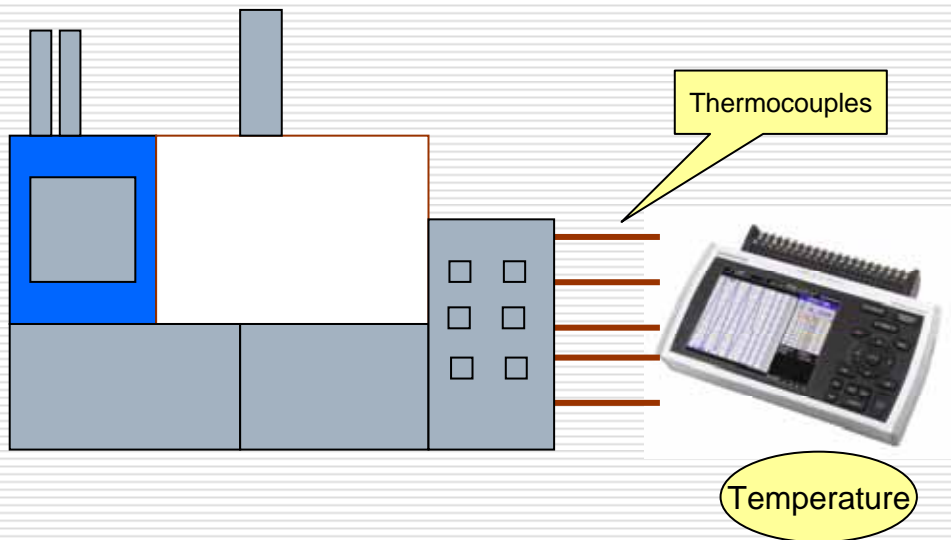
- 1: The device features a compact design.
- 2: The device is user-friendly.
- 3: The device easily sends data to a PC.
- 4: Data processing can be easily executed on a PC.
- 5: The product is available at a reasonable price.

# GL800

## Temperature control for pickup lens manufacturing equipment

The GL800 is used to measure the temperatures of various parts of manufacturing equipment for pickup and other lenses.

To ensure the smooth introduction of new lens manufacturing equipment and to handle any problems that may arise, it is essential to obtain accurate temperature data of the various parts of manufacturing equipment, to adjust these temperatures, and to execute temperature control, in order to ensure manufacturing results of the highest quality. (In particular, an even greater number of temperature measuring points are selected for dies.)



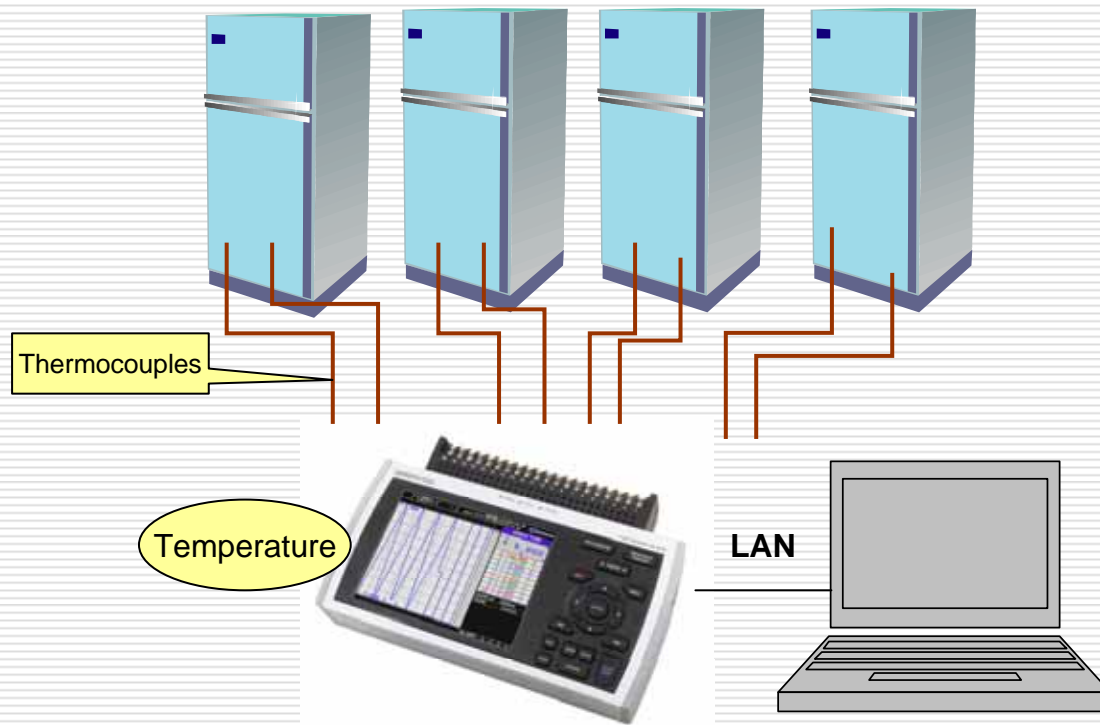
### <<Decision points in purchasing>>

- 1: The device features channel extendibility.
- 2: The device features a compact design.
- 3: The device easily sends data to a PC.
- 4: The product is available at a reasonable price.

# GL800

## Evaluation test in development of refrigerators

In evaluation tests for newly developed refrigerators, one GL800 unit alone can measure the temperatures of multiple refrigerators.



### <<Decision points in purchasing>>

- 1: The device can measure temperatures with up to 200 channels.
- 2: The device is LAN-compatible.
- 3: When an error is generated, the device can generate an alarm and send an alarm message to the customer's terminal using data-communication technology.
- 4: The product is available at a reasonable price.
- 5: Data processing can be easily executed.