GRAPHTEC

*Picture is GL2000

Measurement of
rush current in electric motors

Maintenance	Production-Engineering		QA/QC	R&D
Diagnosis Observation	Data sampling for production line layout planning		Durability test	Evaluation test

Electric motor
Single-phase, Three-phase
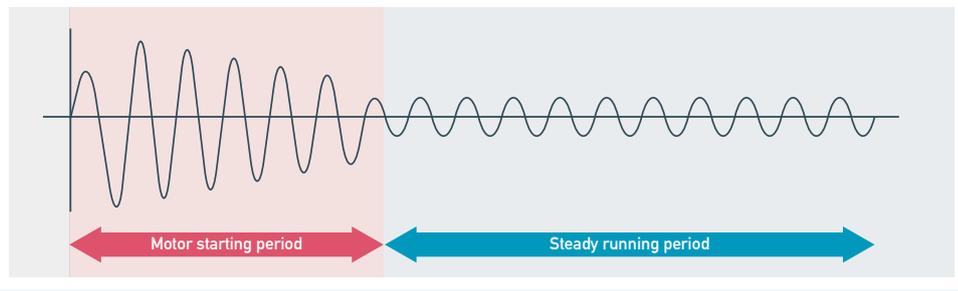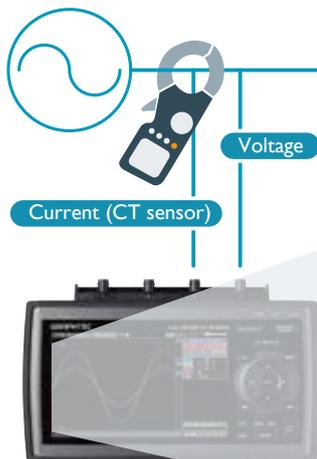
RPM

MOTOR START
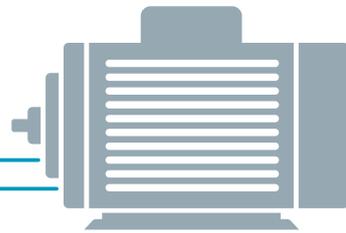
Voltage

Current (CT sensor)

Example of configuration

Sampling speed   : 50kS/s-10kS/s
Recording time   : few sec or longer
Measured object :
- Current (using CT sensor)
  1 or 3 channels used depending
  on the type of motor
- Voltage: 1 channel
- RPM (using B-513 pulse input)
- (Temperature)

Motor starting period ← → Steady running period

midi LOGGER GL2000/980 are
Problem Solving Tool !

Problem caused by inrush current

- Welding of power switch
- Excessive stress on rectifier
- Damage on the coil
- Negative influence for connected equipment

www.graphteccorp.com

Advantage of using Graphtec GL2000/980
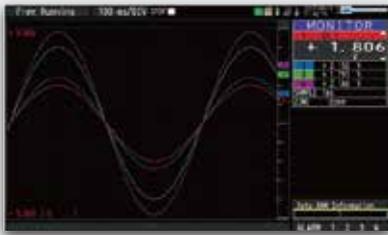

*Picture is GL2000

Handy and Portable

- External dimension : Approx. 260 x 161 x 85 mm
- Weight : Approx. 1.7kg
- Battery operation with optional battery (B-569)
  Up to two batteries can be inserted.
  Max. operating time approx. 5 hours.(GL2000) 2.5 hours.(GL980)
- Including protect cover

Large 7.0 inch TFT display allows stand-alone use on site

Standard display mode

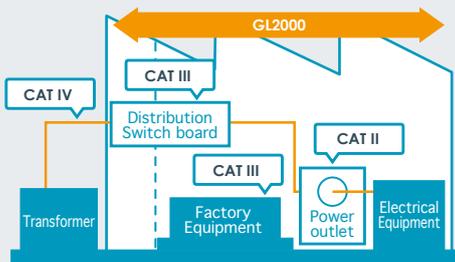### Real time statistical calculation

Search Level function

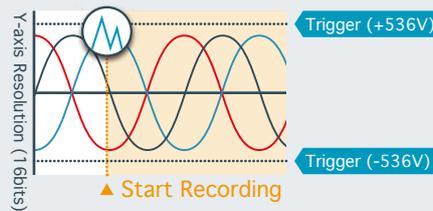

CAT III 600V Compatible (GL2000)

> ! Can be used for phase voltage measurement for 3P motor
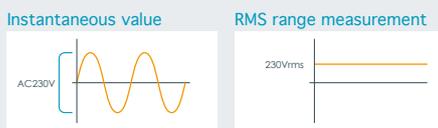
High Speed (1MS/s), High Resolution

Trigger (+536V)

Trigger (-536V)

▲ Start Recording

Y-axis Resolution (16bits)

> ! 16-bit A/D detects fast & micro variation

Multi-input

| V Voltage | Temp. | Humidity |
| Pulse | H.L Logic | |
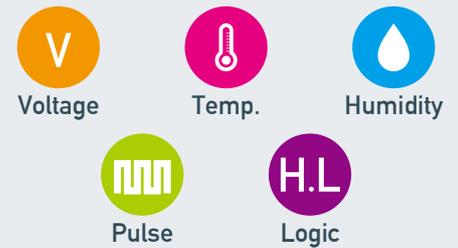
> ! Current, voltage, RPM and temperature meas. in single file

RMS Measurement

Instantaneous value

AC230V

RMS range measurement

230Vrms

> ! Useful to see relevance to other signals

RAM block segmentation

Single block

| Number of measurement | 1st | 2nd | 3rd |
| Block number | 1 | 1 | 1 |

Erase data in memory   Erase data in memory

RAM (4M points) divided up to 8 blocks

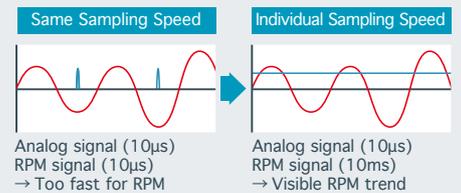| Number of measurement | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th |
| Block number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
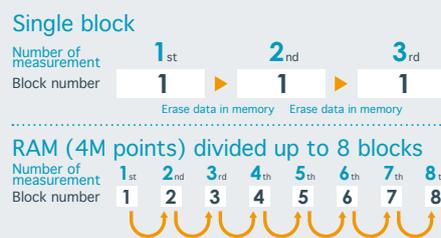
> ! Useful for cycle test with repeated recording

Individual sampling speed setting for pulse input

Individual sampling speed setting on Pulse

| Same Sampling Speed | Individual Sampling Speed |

Analog signal (10µs)
RPM signal (10µs)
→ Too fast for RPM

Analog signal (10µs)
RPM signal (10ms)
→ Visible RPM trend

> ! Actual RPM can be monitored with correct waveform

- Due to the possibility of equipment or PC failure, the data files on the instrument will not be guaranteed to be held on the memory. Please make a backup of data whenever possible to avoid data loss.
- Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
- Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative.

⚠ For using equipment in correctly and safely
- Before using it, please read the user manual and then please use it properly in accordance with the description.
- To avoid malfunction or an electric shock by current leakage or voltage, please ensure a ground connection and use according to the specification.

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