

Measurement Data Management

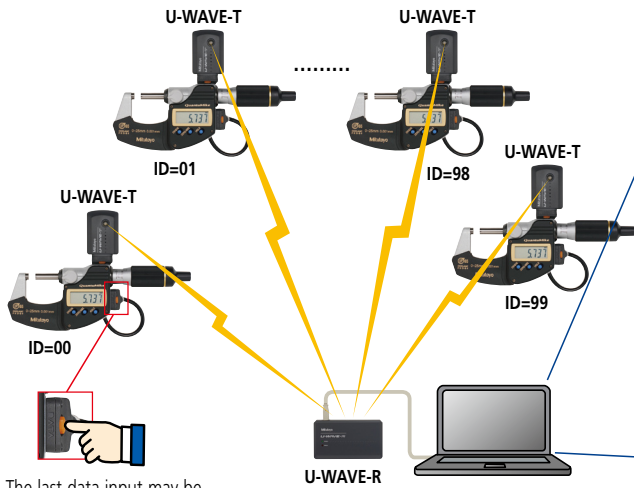
Convenient data collection tool and quality control software

Measurement Data Management USB-ITPAK V2.0

USB-ITPAK V2.0 (Not available for IT-007R)

More applications can be handled due to new features (Wireless (U-WAVE) support, Timer input, Measurement date/time display)
Example of measurement using the U-WAVE wireless communication system — data sorting of individual measurements

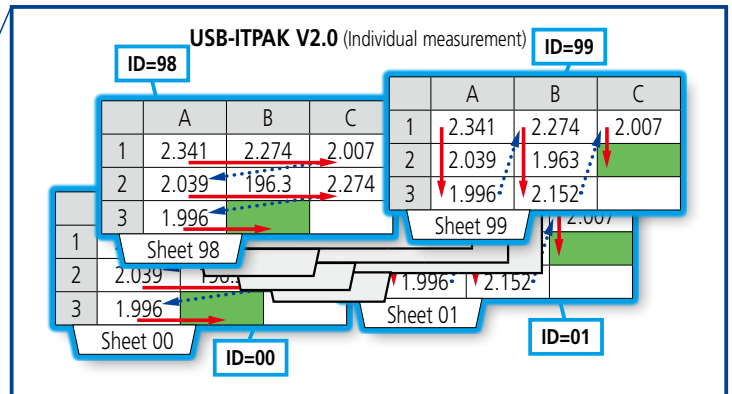
Data from multiple Digimatic gages sent to separate Excel sheets



The last data input may be cancelled by pressing and holding the data switch

Up to 100 gages can be handled by one U-WAVE-R unit

Loading data from multiple Digimatic gages (U-WAVE-T) into separate Excel sheets is now available without the need for macro programming.

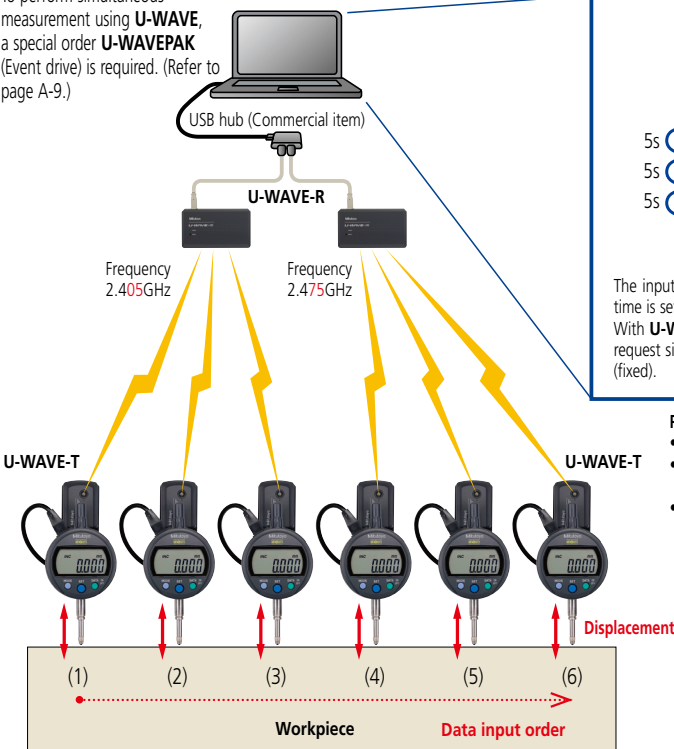


- Entry point can be specified per gage (by U-WAVE-T ID).
- Specifying an Excel file: Excel Book (full path) + sheet name
 - Specifying data input cells (example: A1:C3)
 - Specifying cursor move (right or down)

Example of measurement using the U-WAVE wireless communication system — timer input + measurement date/time display during simultaneous measurement

Automatically obtains displacement data in a certain input interval

To perform simultaneous measurement using U-WAVE, a special order U-WAVEPAK (Event drive) is required. (Refer to page A-9.)



If using USB-ITPAK V2.0 supporting U-WAVE event drive, arbitrary timer input is allowed without the need for macro programming.

USB-ITPAK V2.0 simultaneous measurement + timer input (example: 5s interval)

	A	B	C	D	E	F	G
1	Displacement (1)	Displacement (2)	Displacement (3)	Displacement (4)	Displacement (5)	Displacement (6)	Measurement date/time
2	0.281	0.162	0.121	0.051	0.011	-0.001	2013/4/1 7 30 00
3	0.279	0.152	0.133	0.064	0.018	-0.003	2013/4/1 7 30 05
4	0.265	0.149	0.142	0.089	0.021	-0.007	2013/4/1 7 30 10
5							
6							

The input interval can be arbitrarily set by 0.1s intervals up to 24 hours. If a smaller value than the data loading time is set, the actual measurement time will be the input interval.
With U-WAVE, an error (no data) may occur if less than 0.5s is set for the input interval. This is because the data request signal is issued before the data comes in, based on the event drive data refresh interval that is set to 0.5s (fixed).

Points to note when performing simultaneous measurement using U-WAVE and USB-ITPAK V2.0

- Besides U-WAVE, a special order U-WAVEPAK (Event drive) is required.
 - The battery life of U-WAVE-T becomes shorter in the event mode, reducing to approximately 20 days for continuous measurement.
 - When using several Digimatic gages, communication errors may occur because simultaneous transmission from all gages may cause radio interference. With U-WAVE, radio wave interference can be mostly avoided if data is transmitted after making sure there is no other radio communication. CSMA/CA method: this avoids radio interference and enables successful simultaneous data transmission of three U-WAVE-T units per U-WAVE-R.
- To perform simultaneous measurement with more than three units of U-WAVE-T, add U-WAVE-R and set different frequencies (15 ch) to avoid radio interference.