



For WP-632 Tapping Exfoliation Detector

MITSUI WOODPECKER MONITORING UNIT WP-632M

Instruction Manual

Thank you very much for purchasing the WP-632M external monitoring unit, which was developed to expand the functions of the Mitsui Woodpecker WP-632 tapping exfoliation detector. Please read this instruction manual carefully before using the WP-632M in order to understand its features and make full use of its functions and capabilities.



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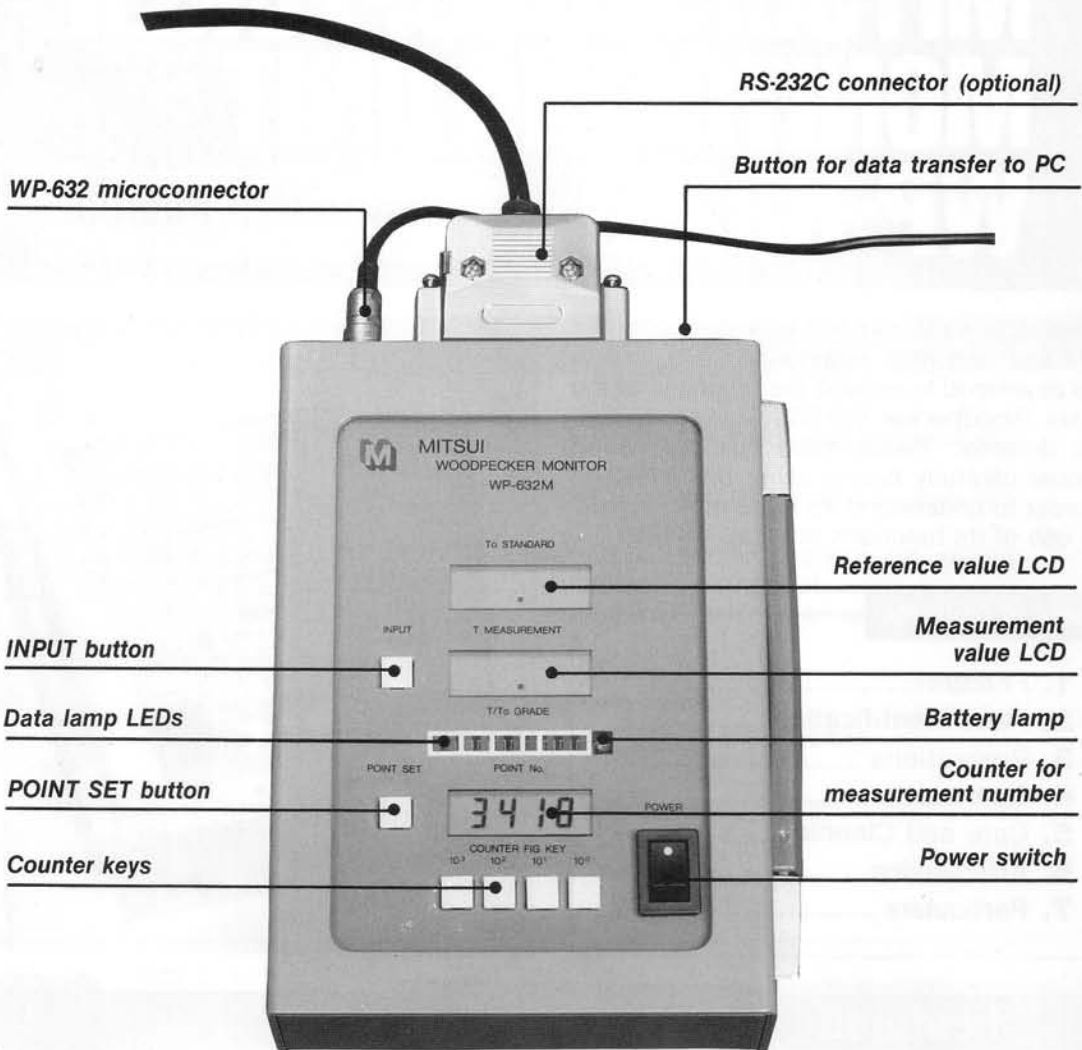
1 Features

This external monitoring unit is connected to the Woodpecker WP-632 to monitor the functions of the WP-632. Data measured by the WP-632 can be displayed with both LEDs and LCDs and also stored. The LED data lamp is divided into ten sections, rather than the WP-632's five, to provide a finer and more detailed display.

DEBOND and INSERT modes are changed on the WP-632 by switch. The WP-632M's data lamps indicate the degree of deviation between the reference value and measurements in both positive and negative directions corresponding to the reading of the measurement LCD in milliseconds, irrespective of the mode setting of the WP-632. Each item of data input into memory is automatically assigned a measurement number, and the reference value and measurements are displayed in milliseconds.

A maximum of 4,999 items of data can be stored, and the stored data can be transferred to a personal computer using the optional software packages named "MONIB (WP-632M)" for IBM PC/AT and compatible computers or "MON98 (WP632M)" for NEC PC 98 series computers.

2 Parts Identification



3 Precautions

- (1) Follow battery installation instructions in the battery compartment, making sure that the + and - ends of the batteries are in the correct orientation. Change batteries when the BATTERY lamp illuminates. Even if the power switch is turned off or the batteries are removed, the data will remain stored.
- (2) Do not drop the unit.

4 Operation

- (1) Monitoring data
 - i) Connect the WP-632 and WP-632M and turn on the power switch on each unit. If any data has already been stored, the counter will show a number that is one higher than the last measurement number used. Both the reference value and the measurement will show zero.
 - ii) Press the memory button on the WP-632 to accept the reference value. The ready lamp will light and, at the same time, the reference value and measurements will be displayed on the WP-632M. The data lamp will also light.
- (2) Inputting displayed data

Press the input button to store the displayed data internally. The measurement number, reference value and measurement will be stored at the same time.

The counter will display the next measurement number to stand by for the next input. The data can be checked visually as it is input.
- (3) Continuing data input
 - i) Press the input button to advance to the next unused measurement number to input new data.
 - ii) Enter any unused measurement number to input new data using a number that does not immediately follow the last number previously used. Press the point set button to stand by for the next input. The reference value and measurements between the last and the new measurements are stored as zero.
- (4) Viewing stored data

Use the counter keys to enter the measurement number of the data to be viewed.
- (5) Correcting stored data
 - i) Enter the measurement number on the counter for the data to be corrected, check the display, then press the point set button.
 - ii) Press the input button to input the new data. The counter will confirm the input by displaying the next measurement number to stand by for new input.
 - iii) Corrections cannot be made consecutively. Enter each desired measurement number.
- (6) Erasing stored data

Use the counter keys to set all numerals on the counter display to zero, then press the point set button.
- (7) Transferring data to a personal computer

Data can be transferred to a personal computer through an optional RS-232C interface using the optional software packages "MONIB (WP-632M)" for IBM PC/AT and compatible computers or "MON98 (WP-632M)" for NEC PC 98 series computers.
- (8) When finished

Turn off the power switch to end operation. When the power is turned on again, the counter will show the measurement number following the last measurement number used before the power was turned off.

Data lamps

The data lamps on the WP-632M are set as shown in the table below. The readings are the deviation rates from the reference value indicated in the absolute value, irrespective of the mode setting of the WP-632's INSERT/DEBOND switch.

WP-632	G		Y		R1		R2		R1+R2	
WP-632M	G	G	Y	Y	O	O	R	R	R	R
(Ti-To)/To%	0	- 4	- 8	- 12	- 16	- 20	- 40	- 80	- 120	- 160

5 Care and Cleaning

Clean the surface of the case with an alcohol-based substance. Do not use the following solvents, which may damage the surface of the case.

- alkali or alkaline salt solvents
- amines
- ketones (acetone, methyl-ethyl-ketone)
- aromatic hydrocarbons (toluene, xylene, benzene)
- esters
- halogen-based solvents (carbon tetrachloride, trichlene, dioxane, methylene-chloride, chloroform)

6 Afterservice

- Warranty card (included separately): Note the warranty period and keep the warranty card in a safe place.
- Warranty period: One year from data of purchase. The warranty does not cover consumables (batteries).
- Service during the warranty period: If a problem cannot be solved satisfactorily after operation in accordance with the instruction manual, send the WP-632M, along with the warranty card, to Mitsui for repair.

Please include the following information:

- Your name, address and telephone number
 - Date of purchase ● A full description of the problem
- Service after the warranty period: Mitsui offers a repair service at customer's expense.

7 Particulars

Size: 170 mm (H) × 130 mm (W) × 50 mm (L)

Weight: 670 g

Power source: Four AA batteries

Power consumption: 0.3 watt

