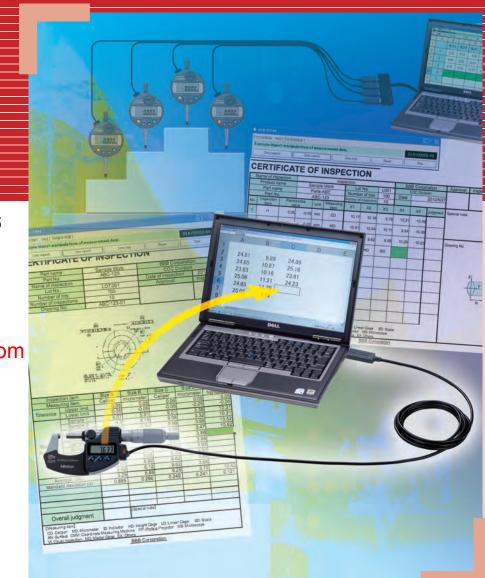
Measurement Data Input Unit USB Input Tool Direct: USB-ITN



USB Input Tool Direct now features a model dedicated to each instrument type and a software option for increased spreadsheet efficiency



Bulletin No. 2015

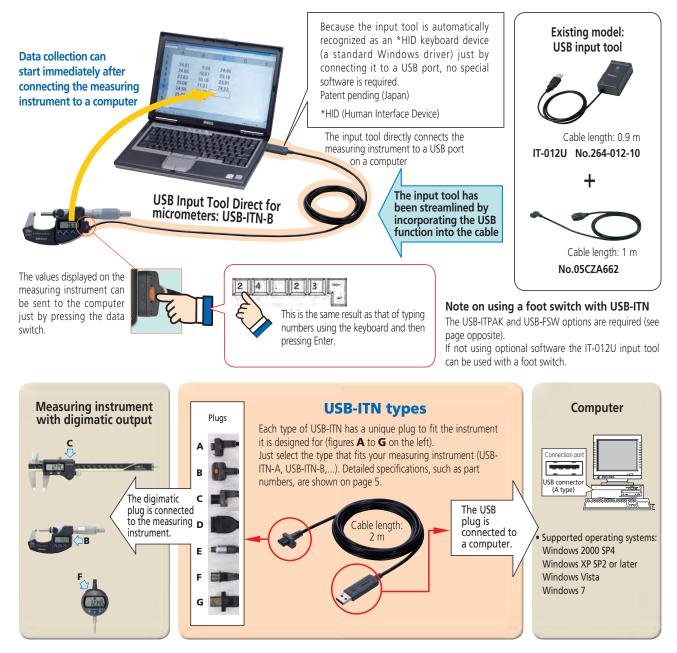
Willrich Precision Ph 866-945-5742 email: sales@willrich.com

USB Input Tool Direct: USB-ITN

Our USB Input Tool Direct has been streamlined into a range of dedicated models for each type of measuring instrument.

Features 1: Using USB-ITN Alone

In the same way as the existing model, IT-012U, measurement data can be input to Excel, Notepad, and other programs just by connecting the input tool to a computer.



Mitutoyo

Features 2: Using USB-ITN in Combination with the Optional Spreadsheet Software

Although measurement data can be simply loaded directly into an Excel spreadsheet by connecting the instrument and input tool to a computer, using the optional USB-ITPAK software enables timesaving operations and procedures that significantly improve reliability and efficiency.

Measurement data collection software: USB-ITPAK[®] Order No. 06ADV386

This setup and data collection software is used to input data from one or more measuring instruments (connected by way of **USB-ITN**) to any Excel sheet. (This software package cannot be used with **IT-012U**.)

Major features

- Excel input settings: The input destination (a workbook, sheet, or cell), cell-fill direction (right or down), cell-fill interval, and other settings can be specified. • Measurement method selection: Any of the following three methods can be selected: Sequential measurement, batch
- Details about the usage environment are provided on page 5.
 - measurement, or individual measurement. (For details, see the measurement examples.) • Data input control: Data can be requested, canceled, or skipped by using mouse buttons, function keys, or foot switch. • Character string input by the USB foot switch adapter, USB-FSW: Any previously specified character string can be



Software use

USB-ITPAK

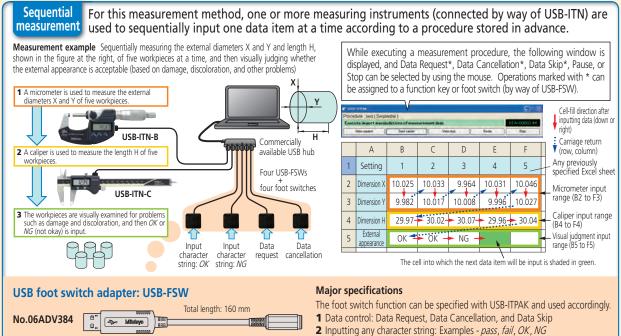
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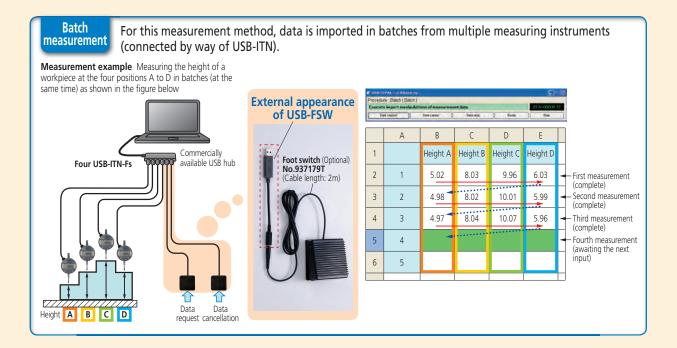
- input using the foot switch. Examples: pass or fail • Number of units that can be connected (total number for both USB-ITN and USB-FSW): Up to 20 units can be connected for Windows Vista or Windows 7, and up to 100 units can be connected for Windows 2000 or Windows XP. However, the above numbers might be less depending on the system configuration. requires USB dongle.
 - Data importation time: About 0.2 to 0.3 seconds per unit. However, this value differs depending on the connected measuring instruments and measurement environment.
 - Driver software: The VCP (virtual COM port) drivers for USB-ITN and USB-FSW are individually recognized using a built-in COM number. • Patent pending (Japan)

These types of measurement are made possible by using the USB-ITPAK optional software

Various measurement patterns are supported by the three measurement modes of USB-ITPAK. Data input and cancellation can also be performed with a single button press using the foot switch.

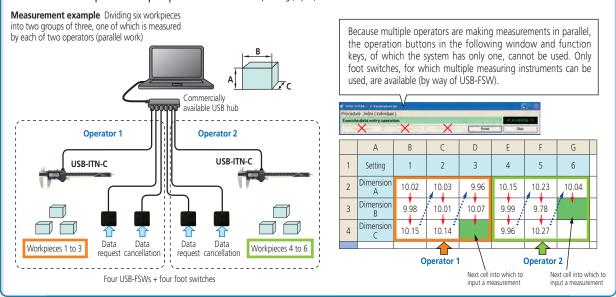
USB-ITPAK measurement examples





Individual measurement

For this measurement method, multiple operators make random measurements, and then data is input from the corresponding measuring instruments (by way of USB-ITN) according to individually specified input procedures. • Patent pending (Japan)



Notes on using USB-ITPAK

• Do not merge the cells within the range of cells specified as input destinations for measurement data.

- During measurement, do not perform operations on the Excel sheet you are using other than data input work stored in the measurement procedure.
- To write data, the measurement Pause or Stop button must be clicked.

Major specifications of USB Input Tool Direct

Note: It is recommended to use a commercially available USB hub that has USB certification.

• Output specifications: • Mass: 59 g

USB 2.0 or 1.1

• USB 2.

• Communication speed: obtain

12 Mbps (full speed) • Compl

• Powe

Power supply:	EMC D
USB bus power	

59 g	• Illustration (Example: USB-ITN-A)
.0 certification	2m
ned lies with the EU Directive	USB connector (A plug)

USB-ITPAK usage environment

Supported operating systems*	Windows 2000 SP4, Windows XP SP2 or later, Windows Vista, and Windows 7
Supported Excel versions	Excel 2000, 2002, 2003, and 2007
Hard disk	At least 20 MB of free space (required for installation)
CD-ROM drive	Required for installation
USB ports	At least two ports (for the USB dongle and USB-ITN)
Resolution	At least 800 x 600 pixels, and at least 256 displayable colors

64-bit operating systems are not supported.
The natural language selected in USB-ITPAK must be the same as that

used in the operating system.

Codes for the main measuring instruments classified according to the USB Input Tool Direct code, part number, and plug type

Determine the plug type suitable for your measuring instrument (one of the seven types from A to G) in the following table, and then select the corresponding USB Input Tool Direct.

Model	USB-ITN-A	USB-ITN-B	USB-ITN-C	USB-ITN-D	USB-ITN-E	USB-ITN-F	USB-ITN-G
Order No.	06ADV380A	06ADV380B	06ADV380C	06ADV380D	06ADV380E	06ADV380F	06ADV380G
Whether the existence of a data switch affects usability	Incorporates a data switch, so the tool is usable regardless of whether or not the measuring instrument has a switch.			Does not incorporate a data switch, so an instrument fitted with a switch is required in order to use the instrument alone. (However, the tool can be used with USB-ITPAK.)			
Cable type	A Water-proof with switch	B Water-proof with switch	C With switch	D 10-pin plain	E 6-pin round	F Straight type	G Water-proof straight type
Illustration of the plug that connects to the measuring instrument	Data Switch	Data switch					
Socket type on the measuring instrument	• •		C C C C C C C C C C C C C C C C C C C	- REA-		INTERT	0 0
Codes of major compatible Codes of major Codes of Codes of Codes C	[Digimatic Caliper /Super Caliper] -500 series CD67-S_PM CD-PMX/PM/GM -550/551 series CDC-P_PMX [Digimatic Carbon Fiber Caliper] -552 series CFC-G/GL/GC/GU [Digimatic Depth Gage] -571 series VDS-PMX [Digimatic Scale Unit] -572 series SD-G [Digimatic Exclusive Caliper] -573 series NTD-PMX/PM	uper Caliper]QuantuMike]00 series-293seriesD67-S_PM-293seriesD-PMX/PM/GMMDC-MJ/MJB/MJT50/551 series(Tubular InsideDC-P_PMX-337 seriesigimatic Carbon-339 seriesber Caliper]-339 series52 seriesIMJ-MJ52 seriesIMJ-MJGigimatic Depth Gage]-350 series71 series-350 seriesDS-PMXIDigimatic Micrometerjamatic Scale Unit][Digimatic Exclusive72 seriesIMN-MB/MJB/MJBO-G(The end of the mark is-MJ/MJB/MJ/MB/M/MB/M/MBB)clusive Caliper]-468 series	[Digimatic Micrometer Head] -164 series MHD-MB [Digimatic Caliper] -500 series CD-CX/C/S_C - 550/ 551 CDC-C/CX, CDN-C/CX [Digimatic Depth Gage] -571 series VDS-DCX/DC [Digimatic Scale Unit] -572 series SD-D/SDV-D [Digimatic Exclusive Caliper] -573 series The end of the mark is -CX/C	[Surface Roughness Tester] -178 series SJ-201/210/301/ 400/500 [Coating Thickness Gage] -179 series DGE-745/755 [Linear Height] -518 series QMH-S [Reference Gage] -515 series HMD-C [Digimatic Indicator] -543 series ID-H [Laser Scan Micrometer] -544 series LSM-9506/6100/ 6200/6900 [µ-checker] Digital µ-checker (Using the foot switch)	ring instrument models [Digimatic Micrometer] -121 series BD -164 series MHD-M -227 series CLM -293 series MDQ-M [Tubular Inside Micrometer] -337 series IMZ-M [Tubular Inside Micrometer] -339 series IMJ-M [Digimatic Holtest] -468 series HTD [Reference Gage] -515 series HME-DM [Borematic] -568 series SBM-C [Hardness Testing Machines] -810 series HM-100/200 HV-100/HH-411 HR-500	[Digimatic Height Gage] -192/570/574 series HDM-A/AX, HD-A/AX HDS-H_C/C HDF-N [Digimatic Caliper] -500/550/551 series CD/CDC/CDN [Digimatic Bore Gage] -511 series CG-D [Digimatic Indicator] -543 seires ID-C_X/_RB/_GB [Digimatic Indicator] -543 series ID-C_X/_RB/_GB [Digimatic Thickness Gage] -547 series Digimatic Caton Fiber Caliper] -552 series CFC-P/-L/-C/-U [Digimatic Scale Unit] -572 series SD-E, SDV-E SD-F, SDV-F [Portable Hardness Testing Instruments] -811 series HH-300	[Digimatic Indicator] -543 series ID-N ID-B
			Measur [Digimatic Indicator] -543 series ID-F [Linear Gage/Counter] -542 series EF-PRH/ZR, EH-P/Z/S/D EB-P/Z/D EC-D [Litematic] -318 series VL-A/AS/AH	ing instrument models No corresponding models	that do not have a dat [Digimatic Indicator] -543 series ID-C/S/C_A [Digimatic Depth Gage/ Digimatic Thickness Gage] -547 series Digimatic model (ID-C) -575 series ID-U	No corresponding models	



 Vision Measuring Systems

 Form Measurement

 Optical Measuring

 Sensor Systems

 Testing Equipment and

 Seismometer

 Digital Scale and DRO Systems

 Small Tool Instruments and

 Data Management

Coordinate Measuring Machines

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