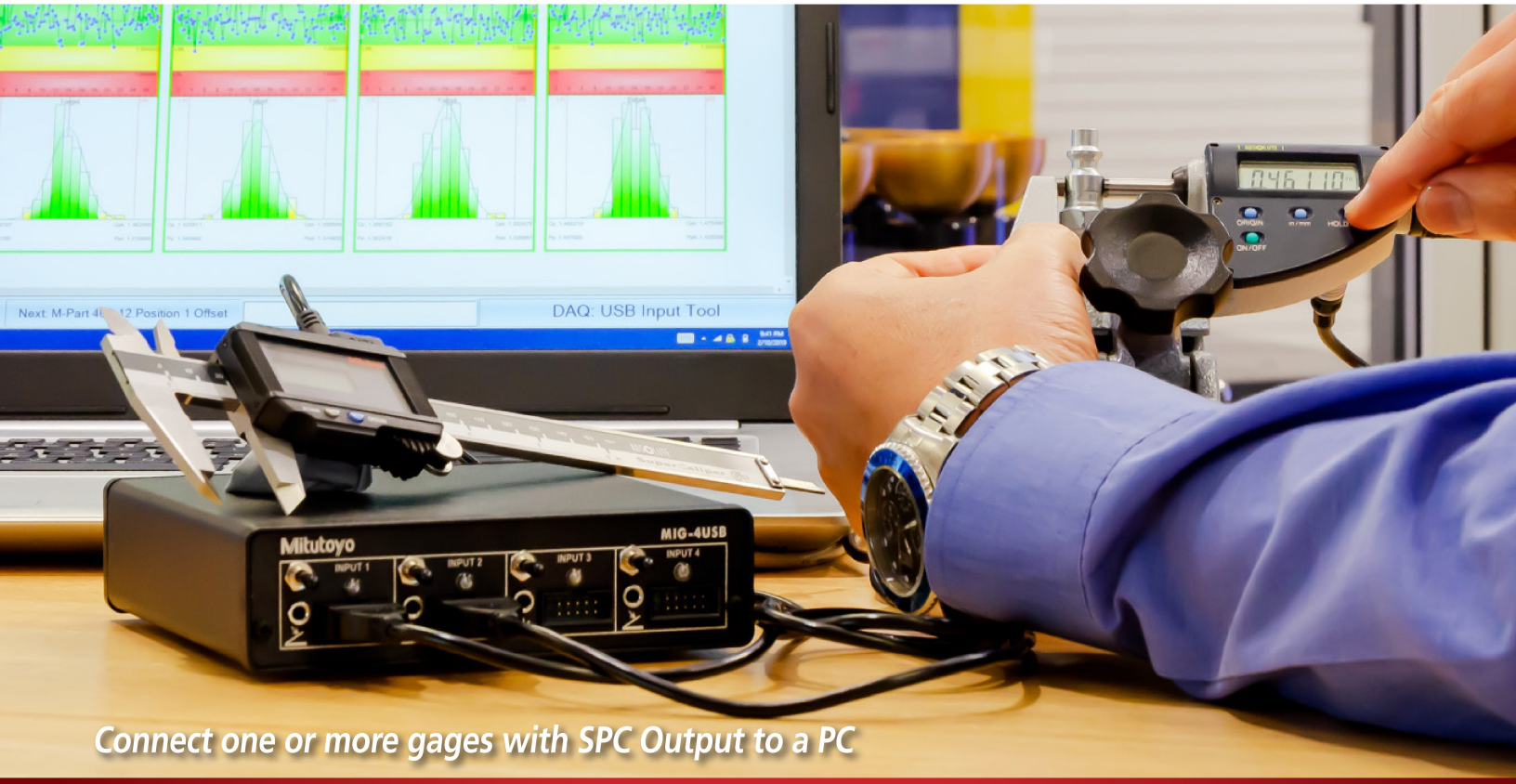
Bulletin No. 2291

Mitutoyo

Easy Data Management

Interfaces, Cables and Accessories

MeasurLink® ENABLED
Data Management Software by Mitutoyo



Connect one or more gages with SPC Output to a PC

Small Tool Instruments and Data Management

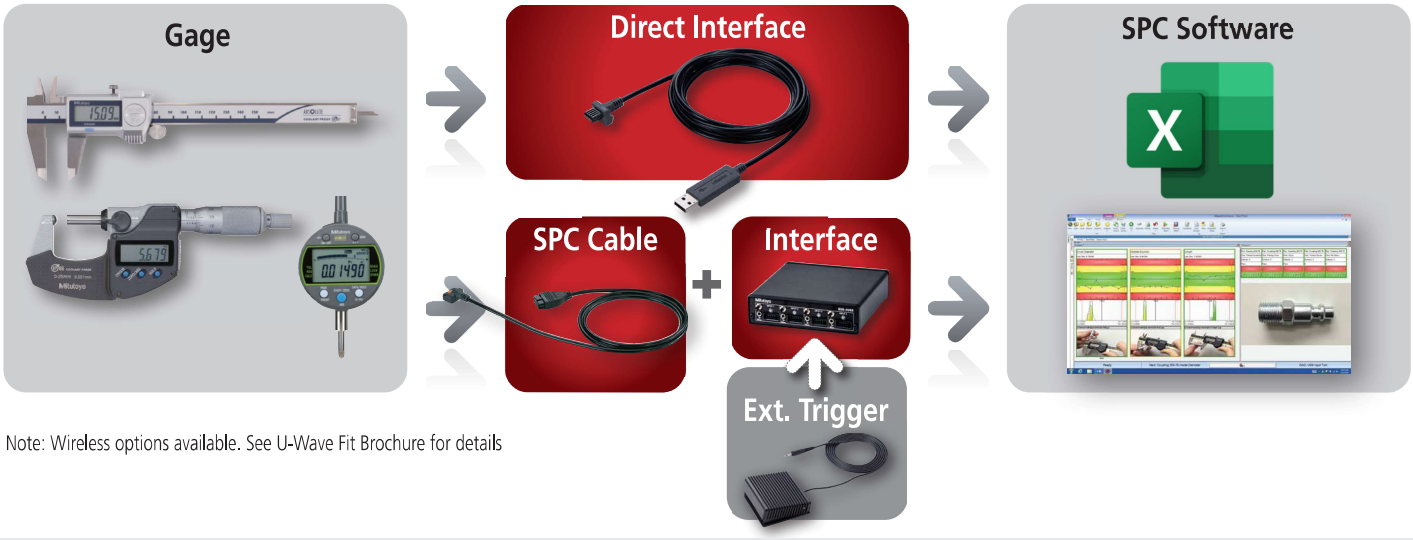
NEW Products

Plug and Play Interfaces

Collect data quickly and easily with any of Mitutoyo's Data Management products. Whether your need is to manage and retain incoming data, gather data from multiple tools to create a customer report, perform SPC, or simply send data into Excel, Mitutoyo has the solution.

Benefits:

- No drivers, downloads, or installs required
- Send data into any program by converting your measuring tools into a virtual keyboard (HID)
- Request data from the PC
- Request data on a timed interval
- Supports Virtual COM Port (VCP)
- Converter cables easily transfer data from RS-232 devices to a PC or interface without special software and set-up



Note: Wireless options available. See U-Wave Fit Brochure for details

USB Multiplexers

NEW Products

The USB Multiplexer is an interface that connects multiple gages with SPC Output to a PC.
The benefits of a Digimatic Multiplexer include:

- The ability to transfer data from the gage into any software such as Excel or MeasurLink®
- Simplifying multi-gage inspection stations to a single USB connection reduces the number of connections required to the PC
- Supports keyboard emulation (HID), Virtual COM Port (VCP) and RS232 connections
- MAX, MIN and TIR collection modes for a single gage or across all connected gages
- Data input from Digimatic, d2, and RS-232 devices
- Timed and continuous data streaming
- Map ports to specified spreadsheet columns or rows for organized data collection
- Date and timestamp for spreadsheets

MIG-1USB MIG-2USB MIG-4USB MIG-8USB

SPC Cables are used to connect gages to the Multiplexer. A USB connection to the PC allows data to be transferred by keyboard emulation (HID) or Virtual COM Port (VCP).

Multiplexers can be connected together to form a system that supports up to 99 gages. Data from single or multiple ports can be sent by the multiplexer, PC, or an external trigger.

Data Hardware Options

Direct Interface

USB Input Tool Direct- ITN

This tool is a slim, single-piece cable with smooth routing for improved workability. Simply plug and play! No drivers or software required to input data to the PC.

Part No.	Description
06AFM380A	USB-ITN-A**
06AFM380B	USB-ITN-B
06AFM380C	USB-ITN-C

Part No.	Description
06AFM380D	USB-ITN-D
06AFM380E	USB-ITN-E
06AFM380F	USB-ITN-F
06AFM380G	USB-ITN-G

Note: For more information see official brochure

Interface

Input Tools

The Input Tool for RS-232 and the Input Tool for USB allows you to connect any Mitutoyo gage with SPC output directly to your PC. These input tools feature a data button separate from the gage and support an optional external trigger.

Part No.	Description
264-016-10	USB INPUT TOOL**
264-007	INPUT TOOL FOR RS232C OUTPUT

Note: For more information see official brochure

Data LOGGER DP-1VA

Store up to 1000 measurements and batch transfer to a spread sheet or immediately print measurements and statistical results. Supports gage input at timed intervals and optional external trigger.

Part No.	Description
264-505A	DP-1VA, 120V AC W/ D2 OUTPUT**

Note: For more information see official brochure

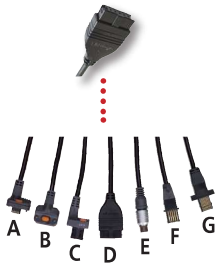
USB Multiplexers

Mitutoyo USB Multiplexers are available in 1, 2, 4 or 8 port models. The 1, 2 and 4 port models have integrated trigger switches.

Part No.	Description
64AAB637	MIG-1USB, V6.0 W/D2 COMPAT, SINGLE INPUT
64AAB638	MIG-2USB, V6.0 W/D2 COMPAT, DUAL INPUT**
64AAB639	MIG-4USB, V6.0 W/D2 COMPAT, 4 INPUT
64AAB640	MIG-8USB, V6.0 W/D2 COMPAT, 8 INPUT

SPC Cables

10-pin connector



SPC Cables

Mitutoyo SPC Cables all have a common 10-pin connector on one end. This end connects to the USB Input Tool, multiplexer or DP-1VA Data LOGGER. The other end connects to the desired gage. Be sure to choose the connector that matches the Digimatic SPC Port on your tool. Some SPC cables have an integrated Data Send Button that can be used if the tool is not equipped. SPC cables come in 1m and 2m lengths.

Part No.		Description
1m	2m	
05CZA624	05CZA625	SPC CABLE TYPE A
05CZA662	05CZA663	SPC CABLE TYPE B
959149	959150	SPC CABLE TYPE C
936937	965014	SPC CABLE TYPE D
937387	965013	SPC CABLE TYPE E
905338	905409	SPC CABLE TYPE F
21EAA194	21EAA190	SPC CABLE TYPE G

Note: Refer to catalog for correct cable selection

Ext. Trigger

External Triggers

Manually trigger data using the Push button switch or for hand-free data collection use the Foot Switch.

Part No.	Description
937179T	FOOT SWITCH**
64AAB644	PUSH BUTTON SWITCH
12AAJ088	HEAVY-DUTY FOOT SWITCH

Accessories

Extension Cables

Allows extension of the SPC Cable by 6 or 10 feet.

Part No.	Description
64AAB645	DIGIMATIC EXTENSION CABLE, 6'**
64AAB646	DIGIMATIC EXTENSION CABLE, 10'

Extension Adapters

Extend the length of an SPC cable with the 10-pin(M/M) extension adapter.

Part No.	Description
64AAB647	DIGIMATIC EXTENSION ADAPTER, W/AC
02ADF640	EXTENSION ADAPTER/DIGIMATIC CABLE**

Serial Converter Cables

Convert the signal from a serial output gage to Digimatic or USB to be used with any interface* or PC.

*Extension adapter w/AC needed for SPC converter cables if not used with MIG-2, MIG-4, MIG-8

Part No.	Description
64PMT114	CONVERTER CABLE, RS-232C TO SPC, 9 PIN MALE
64AAB641	CONVERTER CABLE, RS-232C TO SPC, 25 PIN MALE
64AAB642	CONVERTER CABLE, RS-232C TO USB, 9 PIN MALE**
64AAB643	CONVERTER CABLE, RS-232C TO USB, 25 PIN MALE

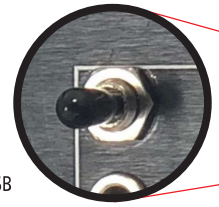
Serial Cables and Adapters

Use serial cables to connect RS-232 output devices and equipment to a PC or adapters to change the RS-232 connector.

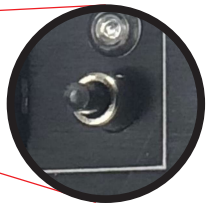
Part No.	Description
64AAB532	USB 2.0 RS-232 SERIAL ADAPTER W/LED INDICATORS**
12AAA807	RS-232C CONNECTING CABLE NULL
12AAA882	RS-232C CONNECTING CABLE STRAIGHT
64PTS268	F/F NULL MODEM ADAPTER-DB-9 (F) TO DB-9 (F)

**Pictured

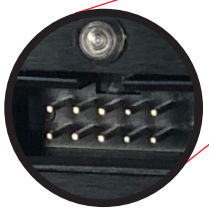
USB Multiplexers



Toggle switch
Available on MIG-2 & 4 USB Multiplexers. Used to trigger data or start and stop MAX, MIN, TIR data collection



Push button switch
Available on MIG-1 USB Multiplexers. Used to trigger data or start and stop MAX, MIN, TIR data collection



10-pin Digimatic port and LED indicator
Available on MIG-1, 2, 4, & 8. LED verifies data input and MAX, MIN & TIR data collection 10-pin port accepts data from any Mitutoyo Digimatic tool with an SPC cable

Trigger Port
Available on MIG-1, 2, 4, & 8. Used to trigger data or start and stop MAX, MIN, TIR data collection with an external trigger. Can be used to trigger all data ports

	MIG Input				MIG Output		Data Send						Power	
Model	# of Inputs	10-pin Digimatic	Serial RS232	Pass-Thru Port	USB	RS232	Button	Timed	Max/Min/ TIR	Continuous	Polling from PC	Column/Row Mapping	Power Supply	Supplies Power**
MIG-1USB	1	Y	--	--	HID/VCP	--	Push	--	Y	Y	Y	Y	from USB port	--
MIG-2USB	2	Y	RS232 DB9M	Y	HID/VCP	RS232 DB9F	Toggle	Y	Y	Y	Y	Y	Power Adapter	Y
MIG-4USB	4	Y	RS232 DB9M	Y	HID/VCP	RS232 DB9F	Toggle	Y	Y	Y	Y	Y	Power Adapter	Y
MIG-8USB	8	Y	RS232 DB9M	Y	HID/VCP	RS232 DB9F	--	Y	Y	Y	Y	Y	Power Adapter	Y

All MIG units include USB cable, RS-232C cable*, AC adapter*, and USB flash drive with additional drivers.
* MIG-1USB does not include RS-232C cable or AC adapter. Power is supplied by USB.
**MIG interfaces can have a feature where power can be supplied to gages or converter cables that can accept it, such as: 64PMT114, LGS Linear Gages, etc.

MIG-1USB

MIG-2USB

MIG-4USB

MIG-8USB

Rear View

Find additional product literature and our product catalog

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