



Selectable Resolution LVDT Probes and Displays Mu-Checker



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Mitutoyo Selectable Resolution LVDT Probe Demands Suited to a Wide Application Ray Building into a Production Line!

A low-measuring-force sensor enables even a soft workpiece to be measured without significant deformation.



Standard type measuring force: 0.2N (No. 519-521)

Low-force type measuring force: 0.02N (No. 519-522)

Compact models are best suited for in-line use.

No. 519-346



Analog and digital indicator units are both equipped with a Zero-setting function.





No. 519-562A

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No. 519-552A

s and Displays Adaptable to Customer nge from the Inspection Room to



Measurement Principle

This instrument uses a differential inductance displacement sensor energized by a 5kHz AC exciting voltage applied across two identical series-connected coils, L1 and L2. An iron core connected to the stylus moves close to both cores and varies the impedance of each coil depending on its position, and the voltage at the junction between the coils varies as the impedance difference. Two resistors, R1 and R2, form a bridge circuit with the coils and the bridge output voltage drives electronic amplification and conditioning circuits to provide a voltage signal proportional to displacement of the stylus.





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Applications



The distortion of a core is measured with lever head **No. 519-522** and Mu-checker **No. 519-552A**.



Measuring the thickness of rolled sheet

The thickness of a rolled sheet material is measured with lever head **No. 519-521** and Mu-checker counter **EV-16A**.



Measuring straightness of sheet metal

The straightness of a component is measured with cartridge head **No. 519-385** and Mu-checker **No. 519-552A**.



Measuring the inclination of a pin

The inclination of a capstan pin is measured with cartridge head **No. 519-385** and digital Mu-checker **No. 519-562A**.



Measuring the maximum runout of a gear

The maximum runout of a gear is measured with lever head **No. 519-521** and Mu-checker counter **EV-16A**.





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Measuring the pitch of HDD head components

The pitch of HDD detector head components is measured with lever head **No. 519-521** and Mu-checker counter **EV-16A**.



Measuring the concentricity of a shaft

The concentricity and runout of a shaft are measured with cartridge head **No. 519-385** and Mu-checker counter **EV-16A**.



Measuring the inside width of a wheel

The inside width of a car wheel is measured with lever head **No. 519-521** and digital Mu-checker **No. 519-562A**.



Measuring the pitch and runout of slitter blades

The pitch and runout of slitter blades are measured with lever head **No. 519-521** and Mu-checker counter **EV-16A**.



Measuring the height of a piston head

The height of a piston head is measured with cartridge head **No. 519-385** and Mu-checker counter **EV-16A**.



Measuring the warp on an LCD panel

The warp of an LCD panel is measured with lever head **No. 519-522** and Mu-checker **No. 519-552A**. This lever head with a low measuring force allows measurement without scratching the workpiece.



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Mu-Checker System Diagram



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Probes

Lever Head Type This type allows multipoint measurement of small parts, flatness and straightness measurement on an X/Y table, etc. and runout measurement of shafts. Specifications



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N	Neasuring	Linearity	Bearing unit	Remarks/
	Approx. 0.2N	[%]	Structure Pivot bearing type	Measuring direction changed with the forward reverse lever No. 520940 (ø1) No. 520938 (ø3)
	Approx. 0.02N	±0.3	Pivot bearing type	Low measuring force No. 520940 (ø1) No. 520939 (ø2) No. 520938 (ø3)
	Approx. 0.15N	±0.3	Parallel leaf spring type	The measuring force is adjustable with the upper dial. No need for displayed value correction when stylus makes an angle with surface No. 102824 (Ø1) No. 102822 (Ø2) No. 102826 (Ø3) Note: Only the Ø2 stylus tip is a standard accessory.
	Approx. 0.15N	±0.5	Pivot bearing type	No need for change of measuring direction due to no-clutch type No. 102824 (Ø1) No. 102832 (Ø2) No. 102826 (Ø3) Note: Only the Ø2 stylus tip is a standard accessory.

Note on stylus angle

Angle θ Correction factor

If the stylus of a pivot bearing type probe (**No. 519-521**, **No. 519-522**, or **No. 519-327**) makes an angle with a workpiece surface, as in the figure, calibration should be performed for accurate measurement. Alternatively, the displayed value may be corrected by multiplying it by the appropriate correction factor as given in the table.



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Cartridge Head Type

A cartridge head type is easily built-in to the equipment due to its slim and compact shape. This type of sensor is optimal for an automatic measuring machine.

Measuring range [mm] Order No. External dimensions [mm] 8.1 (0-point position) 71 1.3 4.5 15 No. 519-331 ±0.5 - -9 No. 519-332 7.3 ø12 28h6 * for 519-332: (ø) .375" stem, 4-48UNF contact point 25 3.5 (0-point position) 12 0.26 0.34 No. 519-346 ±0.25 R125 ø8h6-0 U ø3.5 0.65 0.85 ø8h6-^{0.009} No. 519-347 ±0.5 _ + ∔E 22.5 6.8 (0-point position) 34.5 112.3 1.65 (0-point position) 31 58 2.35 1.65 **Little** No. 519-385 **_____** ±1.5 **∕**8h6 2.8 3.2 ø8h6.⁰.m No. 519-341 ±2.5 **HIE** 14.75 (0-point position) 71 2 4.5 8 15.25 (0-point position) 48 31 (444444444 No. 519-348 Mitutovo ±2.5 R1.5 1.15 1.35

Specifications

Common Specifications

Connection method	Half-bridge type
Exciting voltage	3.0VRMS
Exciting frequency	5kHz
Exciting waveform	Sinusoida

Cord length			— 2m
Cord thickness		(ø4mm
Connector type	N	Mas-5100 ([DIN5P)

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Maximum stylus stroke [mm]	Measuring force	Linearity [%] *	Dust-proof rubber boot	Bearing unit structure	Remarks/Interch	angeable stylus
±0.65	0.25N	±0.5	No	Plain type	Low measuring force	Accepts interchangeable styli for dial indicators M2.5x5
+0.34 -0.26	0.7N	±0.3	No	Linear ball bearing type	Compact type Suitable for inside- diameter measurement	Dedicated stylus used
+0.85 -0.65	0.7N	±0.3	Yes	Linear ball bearing type	Compact type	Dedicated stylus used Non-interchangeable
+2.35 -1.65	0.7N	±0.3	Yes	Linear ball bearing type	Standard type with cable strain-relief	
+3.2 -2.8	0.9N	±0.5	Yes	Linear ball bearing type	Standard type	Accepts interchangeable styli for dial indicators M2.5x5
+1.35 -1.15	0.7N	±0.3	Yes	Linear ball bearing type	Standard type with cable strain-relief	

* Indicates a value with respect to that at full scale.

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Styli/Extension Rods (interchangeable styli for dial indicators are usable)

- All threaded portions are M2.5x0.45 × 5mm.
- When exchanging a stylus, firmly tighten the screw so it will not loosen during use. (Recommended tightening torque: 5N cm)
- Carbide styli are resistant to abrasion.



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Mu-checkers

• Zero-setting can be performed with a single touch of a button. A Mu-checker can be combined with peripheral devices because zero-setting is enabled with an external signal input.

Analog Type

• Easy to read, highly responsive





Differential type analog Mu-Checker (for step and sheet thickness measurement) **No. 519-552A**

Common Specifications

Indication accuracy	±1%/± full scale
Analog output accuracy	±0.1%± within full scale (excluding the probe)
Analog output	±1V/± full scale
Meter indication response	Approx. 0.3s
Zero-setting enabled zone	1/3 scale or less (CMP mode)
Zero point thermal coefficient	100ppm/°C or less
Sensitivity thermal coefficient	100ppm/°C or less
Power consumption	5VA or less
Operating temperature range (°C)	0 to 40
Storage temperature range (°C)	-10 to 50
Power supply	120VAC
External dimensions (mm)	134 (W) ×210 (H) ×183 (D)
Measuring range (µm)	±1500, 500, 150, 50, 15, 5
Minimum reading (µm)	50, 10, 5, 1, 0.5, 0.1
Measuring range (in)	±.05, ±.015, ±.005, ±.0015, ±.0005, ±.00015
Minimum reading (in)	.001", .0005", .0001, .000050", .000010", .000005"



Differential type analog Mu-Checker (for step and sheet thickness measurement) No. 519-554A

Individual Specifications

Order No.		519-552A	519-554A
	±Α	Yes	Yes
Calculation mode	±В	—	Yes
	±A±B	—	Yes
Tolerance judgment		—	—
Tolerance judgment output		—	—
Tolerance judgment output mode		—	—
Number of connectable probes		1	2
Mass		1.7kg	1.8kg

• Special Options

	Description/Illustration	Analog type	Digital type	EV-16A
Digimatic mini processor No. 264-504-5A	DP-1VR		0	
DP-1VR connecting cable No. 936937	1.1m		0	
Analog output cord A No. 934795	7P Banana-shaped tip	0	0	
External output connector No. 529035	Analog, limit output (7P)	0	0	
Extension cord A No. 934386	Extension cord (5m) to enable probe and indicator to be separated	0	0	0

Note: Items marked with \bigcirc are optional accessories.

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Digital Type

• Easy-to-read, digital readout

- A measurement data output function is standard, allowing connection to various processors.
- Dual input



Differential type digital Mu-Checker (for step and sheet thickness measurement) **No. 519-562A**

Specifications

Order No.	519-562A
Readout range	High: ±2.000mm / ±.08"
Readout fallge	Low: ±0.2000mm / ±.008"
Pasalution	On High range: 0.001mm / ±.000010"
Resolution	On Low range: 0.0001mm / ±.000001 "
Calculation mode	±A, ±B, ±A±B
Measurement mode	ABS/CMP
Zero-setting enabled zone	60
LL: 1/3 scale or less, H: Full scale	
Indication accuracy	3 LCD
Operating temperature range (^a C)	0 to 40
Storage temperature range (^a C)	-10 to 50
Analog output	±1V/±FS
Analog output accuracy	±0.1% or less
Digital output	Digimatic code format
Digital output mode	1 ch
Power consumption	5VA or less
External dimensions (mm)	134 (W) × 183 (H) × 210 (D)
Power supply	120 VAC

• Digital Output Connector

9	DA	TA (DUT	1
00	000	00	000	0
10				0

PIN No.	Signal
1	GND
2	DATA
3	CK
4	NC
5	REQ
6	NC

(1) Digimatic code format

A data string for each measurement consists of 13 digits (d1 to d13), assigning 4 bits to 1 digit. data strings are output as 1 set according to the timing.



(2) Timing chart



Analog Output Connector Pin Assignment and Interface

Analog output connector



Pin No.	Signal name
1	+NG output
2	HOLD input (tolerance judgment result hold)
3	Analog output ±1V
(4)	0V (logic GND)
5	0V (analog GND)
6	–NG output
0	ZERO SET

Applicable plug: No. 529035 (Option)



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Mu-Checker Counter EV-16A



External dimensions

Unit: mm



Display unit for the EV counter

Display Unit D-EV

- This display unit allows an EV-16A to be set up without using a PC.
- D-EV can display each axis measurement value, go/no go judgment results, setting data, go/no go judgment bars of all axes and error messages.

Specifications

Connecting condition	Allows external display and setting control of one EV-16A unit.
Number of displayed digits	Sign + 6 digits (EV16-A processes 8-digit data internally)
LED display	Channel display (shared with judgment result display): 3 digits (3 color LEDs) Measurement mode (current value, maximum value, minimum value, runout) display: 2 digits Status display: 1 digit (2 colors)
Operation switch	4
Operation switch function	Channel selection, measurement mode selection (current value, maximum value, minimum value, runout), parameter setting, presetting and tolerance limit setting
Input/output	RS-link connector IN, OUT each 1
Error message	Power supply voltage error, probe malfunction, etc.
Power supply	Terminal board (M3 screws), + 12 to 24VDC, 200mA
Operating temperature (humidity) range	0 to 40°C (20 to 80%RH, non condensing)
Storage temperature (humidity) range	-10 to 50°C (20 to 80%RH, non condensing)
External dimensions	96 (W) × 48 (H) × 84.6 (D) mm
Option	RS-link connecting cable 0.5m: No. 02ADD950 *1 RS-link connecting cable 1m: No. 936937 *1 RS-link connecting cable 2m: No. 955014 *1 Terminal board connecting cable: No. 02ADD930 *2 AC adapter: No. 02ADN460/AC cord: No. 02ZAA000

*1: Required for connecting with an EV-16A.

*2: Connected to the terminal board when using the AC adapter.

Features

- The EV-16A allows 6 probes to be connected unit simultaneously. one unit. The use of the RS link enables easy construction of a multi-point measuring system that allows a maximum of 10 units (60 probes).
 I/O outputs such as RS-232C, BCD, tolerance judgment and segment are selectable.
- Peak measurement and arithmetic operation between axes (in the same unit) are also possible in addition to normal measurement for each axis.

Major Functions

- External control (zero-setting, presetting, etc.)
 Direction switching
- Error messaging
- Tolerance judgment output Various data output (RS-232C, BCD, segment)
- Peak measurement (maximum value, minimum value, runout) and arithmetic operation (addition, average, maximum value, minimum value, maximum width) between axes

Specifications

Order No.		519-355
Model No.		EV-16A
Number of input probe	25	6 axes
Quantizing error		±1 LCD
Resolution [mm] (): Max. c	counting range	0.001(±2.000mm), 0.0001(±0.200mm)
LED display		Parameter display: 8 digits (setting display), error message: 1 digit
Error message		Power supply voltage error, probe malfunction, etc.
External display		Dedicated external display unit: D-EV (special option) connectable
Number of input switches		4
Input switch function		Measurement mode selection, parameter setting
Input/Output	Tolerance judgment output	1 to 6 axes (L1, L2, L3), open collector
	BCD output	BCD parallel output (positive-true logic/negative logic, open collector
	Segment output	Function to turn output ON only for the terminal corresponding to the count value, open collector
	Control output	Normal operation signal (Normal), open collector
	Control input	Output channel designation (upon segment output or in the BCD mode), presetting,
		peak clear, range selection (upon segment output), count value hold, open-collector
		or no-voltage contact signal (contact/noncontact)
Interface	RS-232C	Measured data output and control input, compatible with EIA RS-232C
		Home position DTE (terminal definition): Use a crossover cable.
	RS link	Maximum number of connectable units: 10
		Connecting cable length: Up to 10m (total length of all linked cables)
		Data transmission time: 1.1 sec/60CH (at a baud rate of 19200bps)
Rating	Power supply voltage	Terminal board (M3 screws), +12 to 24VDC
	Consumption current	1A
Operating temperature (h	numidity) range	0 to 40°C(20 to 80%RH, non condensing)
Storage temperature (hur	midity) range	-10 to 50°C(20 to 80%RH, non condensing)
External dimensions		144(W)×72(H)×139(D)mm
Mass		Approx. 1000g
Standard accessories		Fixing bracket (4), mounting fixture (4), mounting screw M4×8 (8)
Optional accessories (custom-ordered)		I/O output connector (No. 02ADB440)
		D-EV external unit (No. 02ADD400)
		RS-link connecting cable 0.5m (No. 02ADD950)
		RS-link connecting cable 1m (No. 936937)
		RS-link connecting cable 2m (No. 965014)
Applicable probes		Lever head, cartridge head

*1. To calibrate the EV-16A properly, be sure to purchase dedicated display unit D-EV. When multiple units of EV-16A units are to

- be used, at least one D-EV unit is required.
- *2. As a power supply is not supplied as standard, an appropriate power supply with a current capacity of 1A or more must be provided for each EV-16A.



External dimensions

Unit: mm



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I/O connector

No. 02ADB440 (with cover) Receptacle to fit the I/O output plug of the EV-16A



Terminal board connecting cable No. 02ADD930

AC adapter AC cord No. 02ADN460 No. 02ZAA010



This AC adapter is used to connect to the power supply terminal of the **EV-16A** and display unit **D-EV**. This terminal board connecting cable is used to supply power to the **EV-16A** and display unit **D-EV**.

RS Link Function

This function allows up to 10 EV-16A units to connect with each other, thus enabling multipoint measurement of up to 60 channels. The dedicated RS-link connecting cable No. 02ADD950 (0.5m), No. 936937 (1m) or No. 965014 (2m) is used for connection. (The total length of RS-link connecting cables is limited to a maximum of 10m over the entire system.)



RS-232C Communication Function

This function enables remote operation of measurement data entry and various settings such as zero-setting for the **EV-16A**.

Command format	Corresponding output	Operation details
GA**CRLF	G**,+01234.567CRLF	Output of [display value] via RS-232C
CN**CRLF	CH**CRLF	Switching display to [current value]
CX**CRLF	CH**CRLF	Switching display to [maximum value]
CM**CRLF	CH**CRLF	Switching display to [minimum value]
CW**CRLF	CH**CRLF	Switching display to [TIR (runout)]
CR**CRLF	CH**CRLF	Zero-setting
CL**CRLF	CH**CRLF	Clear of peak value
CP**,01234567CRLF	CH**CRLF	Input of preset value and execution of presetting
CD**,01234567CRLF	CH**CRLF	Input of lower tolerance limit
CG**,01234567CRLF	CH**CRLF	Input of upper tolerance limit
CS**CRLF	CH**CRLF	Cancel of error
CK**CRLF	CH**, \$CRLF (\$0 or 1)	Verification of HOLD status
CT¥¥CRLF	CH¥¥,+01234.567CRLF	Output of [calculation value] via RS-232C

Note 1: " * * " indicates a probe channel number between 01 and 60 (all channels for 00). Note 2: " #" indicates a type of data [N: current value, X: maximum value, M: minimum value, W: TIR (runout)].

Note 3: CRLF means carriage return (CR) and line feed (LF).

Note 4: Input presetting and tolerance setting values with a sign and 8-digit numerical value without placing a decimal point.

Note 5: Set a tolerance limit in order of command CD and CG.

Note 6: Upon data request of a calculation value, all channels cannot be specified.

Note 7: The RS communication function is temporarily stopped during key operation (for setting of a parameter, preset value or tolerance limit) and then executes command and data output when the count enabled status is restored.

Note 8: Execute cancellation of the count standby status with CS00CRLF (all-channel designation).

RS-232C Specifications

(1) Suitable plug: D-sub 9-pin (female), inch screw

(2) Pin assi	ignment	1 () () () () () () () () () () () () ()	Receptacle D-sub 9-pin (male), inch screw specification
Pin No.	Signal name	IN/OUT	Description (use)
2	RXD	IN	Receive data
3	TXD	OUT	Transmit data
4	DTR	OUT	Data terminal ready
5	GND	_	Ground
6	DSR	IN	Data set ready
7	RTS	OUT	Request to send
8	CTS	IN	Clear to send
1.9	N.C.	_	No connection

(3) Communication specification (compatible with EIA RS-232C)

	• • • • • • • • • • • • • • • • • • • •
Home position	DTE (terminal definition), A crossover cable must be used.
Communication method	Half-duplex, nonprocedural
Baud rate	4800 9600 19200bps
	Start bit: 1
	Data bit: 7 & 8, ASCII, upper case
Bit configuration	Parity bit: none, even number, odd number
-	Stop bit: 2
Communication condition setting	Setting with a parameter

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RS-link connecting cable

Order No.	Cable length
02ADD950	0.5m
936937	1m
965014	2m

This cable is used to connect the EH/EV counters and the RS unit.



(3) I/O circuitry

(1) Output circuitry: Output of tolerance judgment, NOM (nominal), segment, etc. The transistor turns "ON" at input 'low'. (Open Collector output).



Withstand voltage: Max. 24V Output current: Max. 20mA Output saturation voltage: Max. 0.7V

(4) Timing chart

(1) Power-ON characteristic

In the RS LINK connection mode, the time when the EV-16A is initially turned on becomes the reference.



(2) Tolerance judgment result output time Each CEL output is not concurrent.



(3) Data output

Data output is provided with two methods, command mode and interval mode which can be set with each I/O output mode parameter. 1) Command mode (All-CEL output)

This mode allows data output of All-CEL (specified with SET1 to SET3) under the concurrent control of HOLD and READY.



Note: UNIT LED (on D-EV) blinks during HOLD input.

(2) Input circuitry: Input of P.SET, HOLD, SET, etc. An input is effective at 'low'.



(4) External presetting

Assume that the current value of a CEL specified from among SET1 to SET3 is equal to a preset value.



When presetting is executed, the peak value is cleared. (Max. = Min. = Current value, TIR = 0)

(5) Output CEL designation/calculation

method selection

Designate a CEL specified from among SET1 to SET3 as a data output CEL.



Input of SET1 from SET3 at the time of segment output

SET1 to SET3 normally operate as range specification data.

(This data operates as designation of an output CEL upon input of OUTCEL.)

Data operation differs depending on the setting from among I/O function selection parameters.

•NORMAL, high-speed mode: Output CEL designation •Calculation mode: Calculation method selection

(6) Peak clear

This function clears a peak value. (Max. = Min. = Current value, TIR = 0)

SET 1, 2 P.SFT Min 15ms Min 10m



Note: Peak clear is executed only in the Peak mode. (Presetting is executed when the current value is selected.)

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2) Command mode (Discrete CEL output)

of HOLD and READY.

Max 40ms

(Max 15ms)

Tolerance judgment, segment, BCD data

[Max 80m

HOLD

READY

EV-16A

START

READY

READY

This mode allows data output of discrete CEL (specified

with one of SET1 to SET3) under the concurrent control

Min 70ms

Data latch 2.5ms (40ms at smoothing ON)

12ms • 15ms

(1.6ms • 2ms)

Note: If using the high-speed mode or all-CEL output, use a

device with an input response time of 1ms or less.

This mode allows continuous data output of All-CEL

(specified with SET1 to SET3) at the internal timing of the

⊨¦5ms • 6ms

Note: If using the high-speed mode or all-CEL output, use a

This mode allows continuous data output of discrete

30<u>ms • 35ms</u> (5ms)

12ms+15ms (1 6ms+2ms)

CEL (specified with one of SET1 to SET3) at the internal

device with an input response time of 1ms or less.

1.6ms • 2ms

Tolerance judgment, segment, BCD data

4) Interval mode (Discrete CEL output)

timing of the EV-16A.

Tolerance judgment, segment, BCD data

30ms • 35ms

CFI4

Min 15ms

(): Time upon output in

high-speed mode

calculation mode

: Time upon output in

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SENSORPAK (Data Import Software for EV Counter)



SPECIFICATIONS

Order No.	02NGB073 (Software plus I/O cable)
Display function	Display type: Counter, bar graph, meter, chart (capable of simultaneous display) Tolerance judgment result: Color display (green/red) Connectable gages: max. 60 gages
Calculation functions	Calculation items: Sum, difference, total, average, maximum, minimum, range (maximum–minimum), calculation with a constant Connectable gages: Max. 30 calculation functions (between two gages)
Total tolerance judgment	Go/no go judgment (by specifying gages to be used for total tolerance judgment) Go/no go signal output with optional I/O cable
Input function	Trigger function: by means of key, timer or external TRG (with optional I/O cable) Data input frequency: Max. 9999 times (with 60 gages connected) to 60000 times (with 6 gages connected)
Output function	Direct output to EXCEL spreadsheet, CSV file output (compatible with MeasurLink)
Connectable items	Various Mitutoyo counters (those compatible with RS Link)
System Environments	Recommendation: PC/AT compatible machine, CPU: Clock 2GHz or more, Memory: 2GB or more Disk: 2GB or more OS: Windows 7/8.1 (32bit/64bit)

Currently supported languages: English, German, French, Spanish User's manual: English

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- This software imports measurement data from a 6-channel
- Measurement points can be processed up to 60 channels.
- Arithmetic operation and maximum width calculation from measurement data are also enabled.
- Measurement data can be transferred to MS-Excel.
- Analog display with aids such as bar-graph meters can be

Real-time Display of Measurement Data

A vertical pin is measured from 3 directions to determine the reference

A real-time display of measured data also allows installation of a part



Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair,

Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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