

IT-007R

Input Tool

User's Manual

Read this User's Manual thoroughly
before operating the instrument. After reading,
retain it close at hand for future reference.

Mitutoyo

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First Edition June 2003

This manual is subject to change without notice for improvement and other purposes.

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CONVENTIONS USED IN THIS MANUAL

Safety Precautions

To ensure that instruments are operated correctly and safely, Mitutoyo manuals use various safety signs (Signal Words and Safety Alert Symbols) to identify and warn against hazards and potential accidents.

The following symbols indicate **general** warnings:



Indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.



Indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

The following signs indicate **specific** warnings or prohibited actions, or indicate a mandatory action;



Alerts the user to a specific hazardous situation. The given example means "To warn of electricity".



Prohibits a specific actions. The given example means "Do not touch".



Specifies a mandatory action. The given example means "Connect an earth to the ground".

CONVENTIONS USED IN THIS MANUAL

Types of Notes

The following types of **notes** are used in this manual to help the operator obtain reliable measurement data through correct instrument operation.

IMPORTANT An *important note* provides information essential to use the product. You cannot disregard this note.

An *important note* is a type of precaution, which if neglected could result in degraded performance or accuracy, or instrument malfunction/failure.

NOTE A *note* provides information to be especially noted or supplemented to use the product.

A *note* also supplies information to be noted for specific operations (e.g., memory limitation, instrument configuration, or details that apply to specific versions of a program).

TIP A *tip* is a type of note that helps the user to apply the operation method and procedures to his or her specific conditions.

A *tip* also indicates the reference destination if there is information to be referred to.

The specifications and information in this manual are subject to change without notice.

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Safety Precautions

- This user's manual provides important information on safe use of the Input Tool (IT-007R). Read the user's manual thoroughly before using this instrument. Especially, read carefully the "Precautions for Use" given at the beginning of this manual to fully understand them for better use of the instrument. Store this manual in a safe place for future reference as necessary while the instrument is in service. Mitutoyo has paid due attention to ensure the safe use of this instrument without any harm to the properties of the customers.
- Operate the instrument according to this manual.

Precautions for Use

IMPORTANT To ensure safe operates with this instrument, check the following items prior to use.

The Input Tool operates with the power supplied form the PC connected. Depending on the manufacturers or models, PCs may generate significant interference noise. Be sure to check that the entire system operates normally before starting measurement. Check the system according to the following procedure.

- 1)Connect the Input tool to measuring tool and the PC (or equivalent),then turn the PC on.(It needs not to open the data input window.)
- 2)Zero set the measuring tool.(Refer to the respective User's Manual)
- 3)Open the measuring faces(contact point)to the point of workpiece insertion, then close them to the original zero point. Check to be sure that the measuring tool displays zero.
- 4)Repeat step 3 for 5 times. If the measuring tool repeats zero for each time, you may safely use the system for measurement.
- 5)In the event that the instrument malfunction should result, please contact Mitutoyo office.



CAUTION

- If a malfunction is not solved with switches, remove the cables and connect them again.
- Wait more than one second before outputting the data with the “Input Tool for RS232C” after the completion of previous data output to avoid outputting an error data.

Fig.1 Do not use this product at site where it may be subjected to water or oil.

Fig.2 Do not leave this product at site where it may be subjected to direct sunlight, in the car, near the heat or extremely cold places.

Fig.3 Do not drop this product.

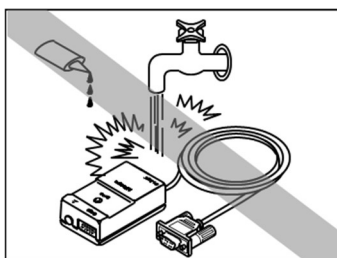


Fig. 1

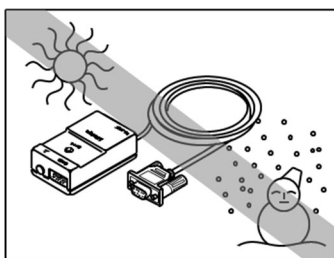


Fig. 2

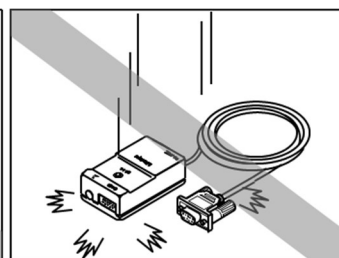


Fig. 3

Conventions for Describing Software Operation

Microsoft, Windows, Windows Vista and Excel are registered trademarks and/or trademarks of Microsoft Corporation in the United States and/or other countries.

WARRANTY

Mitutoyo		Mitutoyo Corporation	
20-1, Sakado 1-chome, Takatsu-ku,		20-1, Sakado 1-chome, Takatsu-ku,	
Kawasaki-shi, Kanagawa 213-8533, Japan		Kawasaki-shi, Kanagawa 213-8533, Japan	
Phone (044) 813-8230		Phone (044) 813-8230	
ONE YEAR WARRANTY			
Product Name		Code No.	
Serial No.		Date Purchased	
Mitutoyo Corporation conducts an own Quality management system based on the requirements of ISO 9001. This product conforms to the Mitutoyo inspection standard, and the standard (s) used for the calibration is /are traceable to the national standard (s).			
In the event that this product should fail within one (1) year from the original date of purchase through normal use conforming to the User's Manual provided with the product and Warning Label(s) on the product, we will repair or replace at our option, free of charge, upon its prepaid return to Mitutoyo with this WARRANTY card.			
※ Purchaser is requested to fill the blank above and retain the warranty card at hand. Return card only when requesting Warranty Service.			
		T. Narumi Quality Assurance Department T. Narumi Manager	
This warranty shall not apply if the product and consumables have been subject to fair wear and tear, abuse through misuse or improper use/handling/storage/maintenance/service/repair or through adaptation/modification by the original purchase or any third party without prior written consent of Mitutoyo, or as a result of damage by an actual disaster or circumstances beyond the control of Mitutoyo.			
To obtain service under this warranty the product must be returned to the store/dealer you purchased from along with the warranty card. Any postage, insurance, or shipping charges incurred in returning the product for service are the responsibility of the purchaser.			
※ This warranty is not transferable and is only valid within the country of the original purchase.			
※ You may have additional rights under the laws of country of original purchase that do not allow the exclusion of implied warranties of the exclusion or limitation of certain damages. If these laws apply, Mitutoyo's limitations and exclusions may not apply to you.			

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The foregoing limitations shall apply even if the above-stated warranty fails of its essential purpose.

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Export Control Compliance

This product falls into the Catch-All-Controlled Goods and/or Catch-All-Controlled Technologies (including Programs) under Category 16 of Appended Table 1 of Export Trade Control Order or under Category 16 of Appended Table of Foreign Exchange Control Order, based on Foreign Exchange and Foreign Trade Act of Japan.

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Also, if an option is added or modified to add a function to this product, this product may fall under the category of List-Control Goods, List-Control Technology (including Programs) under Category 1 – 15 of Appended Table 1 of Export Trade Control Order or under Category 1 - 15 of Appended Table of Foreign Exchange Control Order, based on Foreign Exchange and Foreign Trade Act of Japan. In that case, if you intend re-export of the product from a country other than Japan, re-sale of the product in a country other than Japan, or re-providing of the technology (including Programs), you shall observe the regulations of your country. Please contact Mitutoyo in advance.

Notes on Export to European Countries

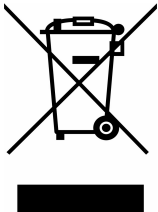
When you intend exporting of this product to any of the European countries, it may be required to provide User's Manual(s) in English and Declaration of Conformity in English (in some cases, the official language of the country to be exported). For detailed information, please contact Mitutoyo in advance.

Electromagnetic Compatibility(EMC)

This product complies with the EMC Directive and the UK Electromagnetic Compatibility Regulations; however, if this receives electromagnetic interference that exceeds these requirements, it will be out of warranty and require appropriate measures.

This product is an industrial product, and is not intended to be used in residential environment. If this product is used in residential environment, this product may cause electromagnetic interference with other instruments. In such a case, it is required to take appropriate measures for preventing such electromagnetic interference.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Countries with Separate Collection Systems)



This symbol on the product or on its packaging is based on WEEE Directive (Directive on Waste Electrical and Electronic Equipment), and this symbol indicates that this product shall not be treated as household waste.

To reduce the environmental impact and minimize the volume of landfills, please cooperate in reuse and recycle.

For how to dispose of the product, please contact the agent where you purchased the product or a Mitutoyo sales office.

Conventions Concerning Korea Certification

/ 한국 규제 (KC)에 관한 표기

Notes for users / 사용자안내문

Models	Notes for users
Class A equipment (Materials for professional broadcasting and communications equipment)	Retailers and users should note that this equipment is professional-use only (class A) electron wave compliant equipment and not for household use.

기종별	사용자안내문
A급기기 (업무용 방송통신기자재)	이 기기는 업무용(A급)전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

Service location in Korea / A/S 서비스

Mitutoyo Korea Corporation

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한국미쓰도요주식회사

주소 : (15808) 경기도 군포시 엘에스로 153-8 (산본동, 금정하이뷰 6 층)

<http://www.mitutoyokorea.com/>

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1

Introduction

This chapter explains the Input Tool practical operating procedure

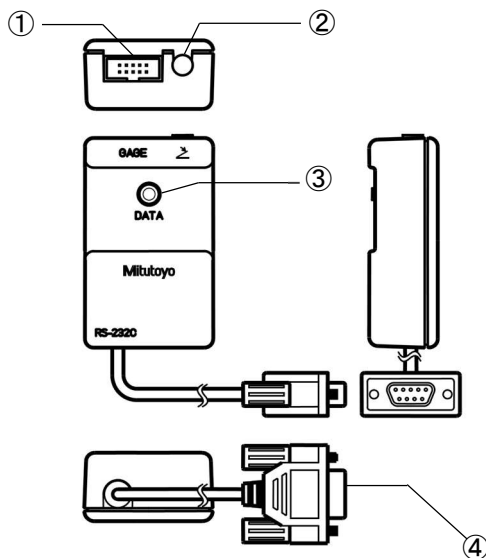
1.1 Input Tool for RS-232C

- Measuring instrument data can be inputted via the personal computer RS-232C connector.
- Automatic measurement and control can be performed because the personal computer can issue a data request.

1.1.1 Applicable models

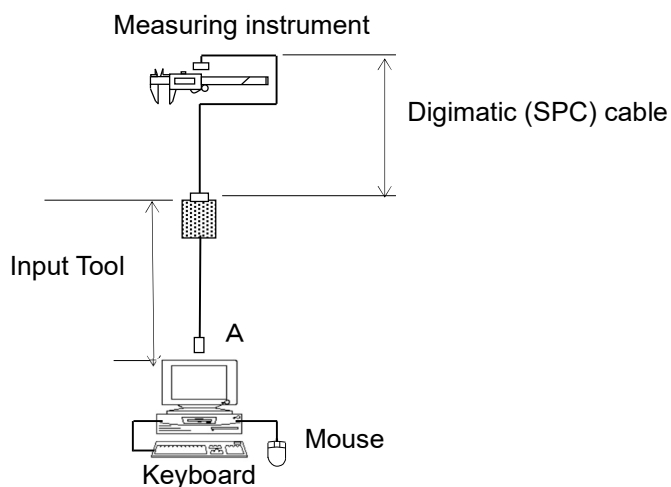
PC/AT, PC/AT-compatible, and compatible machines (including notebook type) with an RS-232C interface.

1.1.2 Name and function of each part



- ① Digimatic (SPC) 10-pin connector
: Connection with the Mitutoyo Digimatic (SPC) cable.
Refer to section 2.2 Table 1 List of Digimatic (SPC) cables.
- ② Foot switch jack
: For connection with the foot switch No.937179T (optional).
- ③ DATA button
: Press to acquire data.
- ④ D-sub 9-pin female connector
: connect to the RS-232C connector of the personal computer.

1.1.3 System connection method



CAUTION Depending on the personal computer used, a commercial conversion connector/cable may be required at (A) .

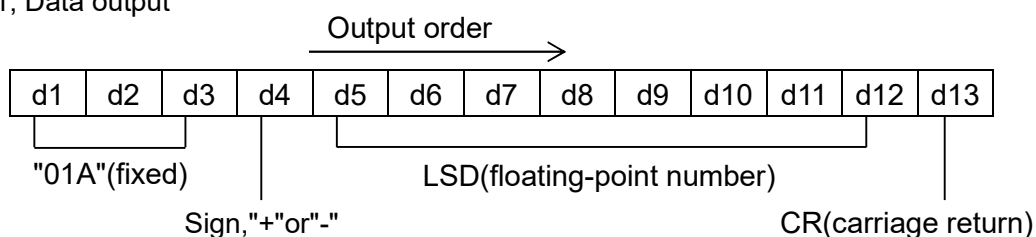
Use straight-type conversion cable.

1.1.4 Data acquisition method

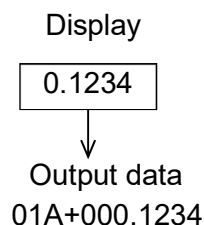
- Press the DATA button on the measuring instrument, Digimatic (SPC) cable, or Input Tool main unit so the personal computer can read the data. The data can also be acquired if the data request signal (a single, optional character) is sent from the personal computer.

* Data format

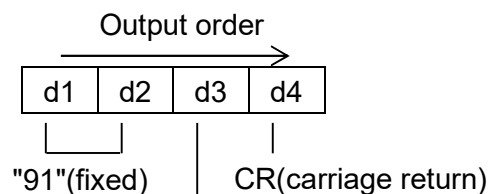
1, Data output



2, Data format example



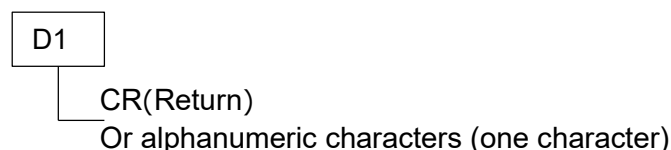
3, If an error code is outputted



Error code number

- 1: If data is not inputted
- 2: If input data is not formatted

4, Request format example



CAUTION d1~d13 are respectively represent one byte.

* Connector specifications

PinNo.	Symbol	Signal line name ^{*1}	Direction ^{*2}	Power ^{*3}
1	(N.C.)	(No connect)	(None)	
2	RXD	Received Data	Output	
3	TXD	Transmitted Data	Input	
4	DTR	Data Terminal Ready	Input	Input
5	GND	Ground	-	Ground
6	DSR	Data Set Ready	Output	
7	RTS	Request To Send	Input	Input
8	CTS	Clear To Send	Output	
9	(N.C.)	(No connect)	(None)	

*1: The signal line name is from the perspective connected to a PC.

CAUTION *2: The direction of the input and output is viewed from the Input Tool.

*3: This signal line is used as a power supply of the Input Tool.

THESE SIGNAL LINES MUST BE CONNECTED.

* Communication specifications

Output signal level	:	Conforms to RS-232C standard
Communication method	:	Full-duplex
Baud rate	:	2400 bps
Bit configuration	:	start bit 1 bit
		data bits 8 bits
		parity bit none
		stop bit 1 bit
X parameter	:	Disables control
S parameter	:	Disables input/output
Home position	:	DCE (modem specification)

IMPORTANT

- To ensure stable data input, assign a data input interval of approximately one second. A shorter interval may result in a data error. If an error results, an appropriate error handling procedure must be executed in a program.
- A few seconds of power accumulation time is required before starting data input.

* Sample program (press any key to acquire data, press "0" to terminate) with NEC's N88BASIC (MS-DOS version).

```
100 '<SAMPLE PROGRAM> ' baud rate is fixed at 2400 bps.
110 OPEN "COM1:N81NN" AS #1 ' opening the RS-232C
communication line
120 INPUT WAIT 30," 0 = END ";B$ ' 3-second power accumulation,
display of operation method
130 A$=INKEY$ ' wait for key input
140 WHILE A$<>"0" ' "0" for termination
150 A$=""
160 WHILE A$=""
170 A$=INKEY$
180 IF LOC(1)>0 THEN A$="1"
190 WEND
200 CNT=CNT+1 ' count up starts if any key is
pressed.
210 PRINT #1,"1" ' sends a DATA request signal.
220 INPUT #1,B$ ' receives DATA.
230 WHILE LEFT$(B$,3)<>"01A" ' error handling
240 B$=MID$(B$,2) ' if the DATA button is pressed.
250 WEND
260 PRINT CNT,B$,VAL(MID$(B$,4,9)) ' screen display
270 WEND
280 CLOSE #1
290 END ' end of program
```

1.1.5 PC software for importing data

IMPORTANT • One of the following ways can be chosen:

1. Creating software by yourself.
 2. Purchasing MITUTOYO software which can import the data stated in item 1.2.5.
 3. Choosing software on the market.
-

* For information about the applicable software for RS-232C communication, contact the following.

Orange house Co.,Ltd.

Phone: 81-820-74-3887

Facsimile: 81-820-74-2187

<http://www.orangehousejapan.com/>

2

Specifications

This chapter describes the specifications of each part of the Input Tool.

2.1 Specifications

Power supply	: Supplied from the personal computer via the RS-232C connector to accumulate power for control signals.
Data transfer speed	: Fixed at 2400 bps
Response speed	: 1 session/second
Compatible OS	: MS-DOS, Windows 3.1, Windows 95, Windows 98, Windows 98SE, Windows 2000, Windows Me, Windows XP, Windows Vista, Windows 7, Windows 8/8.1, Windows 10, Windows 11, Pocket PC 2002, Windows Mobile 2003, Windows Mobile 2003SE, Windows Mobile 5.0, Windows Mobile 6.0, Windows Mobile 6.1.
Connector standard	: D-sub 9-pin female (cable)
External dimensions	: W44.0mm × D77.0mm × H23.5mm (Main unit)
Cable length	: 0.9m
Mass	: 74g
Operation	: 0°C ~ 40°C
Storage temperature	: -10°C ~ 60°C
CE marking/UKCA marking	: EMC Directive/Electromagnetic Compatibility Regulations: EN IEC 61326-1 Immunity test requirement: Clause 6.2 Table 2 Emission limit: Class B RoHS Directive/The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations: EN IEC 63000

A display value on this product may flicker or disappear temporarily due to electromagnetic interference caused by electrostatic discharge. However, this product will return to normal after removing the interference.

External power supply models may not acquire correct measurement data due to electromagnetic interference acting on the AC or DC power line.

If this is the case, check the circumference of the power line and then perform measurement again.

External power supply models will be turned off automatically if a brownout occurs. However, this product will return to normal after the recovery from the low voltage.

For the EU Directive



Authorized representative and importer in the EU:
Mitutoyo Europe GmbH
Borsigstrasse 8-10, 41469 Neuss, Germany

For the UK Regulation



Authorized representative and importer in the UK:
Mitutoyo (UK) Ltd.
Joule Road, West Point Business Park, Andover, Hampshire SP10 3UX, UNITED KINGDOM

Table 1 List of Digimatic (SPC) cables

Connector type	Cable length: Part No.	Applicable Digimatic measuring instrument (with output)	
		Series No.	Product name.
1) Flat, Straight	1m:905338 2m:905409	192 500 543 543	• Digimatic Height Gage HDM-A, HDM-AX, HD-AX • Digimatic Caliper • Digimatic Indicator IDS • ABS Digimatic Indicator ID-C (only (1) can be used)
2) Flat, L-shape (cable outlet is back)	1m:905689 2m:905690	547 550	• Digimatic Depth Gage • Digimatic Caliper
3) Flat, L-shape (cable outlet is right)	1m:905691 2m:905692	551 552	• Digimatic Caliper • Digimatic Carbon Fiber Caliper
4) Flat, L-sharp (cable outlet is left)	1m:905693 2m:905694	570 572 574 575 811	• Digimatic Height Gage HDS • Digimatic Length Measuring Unit • Heightmatic Height Gage HDF-N • Digimatic Indicator ID-U • Hardmatic HH-300
5) Straight type with output button	1m:959149 2m:959150	500 571 572 573	• ABS Digimatic Caliper CD-C/CX • ABS Digimatic Depth Gage VDS-DCX • ABS Digimatic Length Measuring Unit SD (including ABS-type dedicated calipers) • ABS Digimatic Caliper CD-SC
6) Water-proof type with output button	1m: 05CZA624 2m: 05CZA625	500 500 500 550 551 552 571 572 573	• ABS Coolant Proof Caliper CD-PM/GM • Super Caliper CD-S_PM • ABS Coolant Proof Caliper CD-PMX • ABS Coolant Proof Caliper CDC-P_PMX • ABS Coolant Proof Caliper CDN-P_PMX • ABS Coolant Proof Carbon Fiber Caliper CFC-G/GL/GC/GU • ABS Coolant Proof Depth Gage VDS-PMX • ABS Coolant Proof Digimatic Scale Unit SD-G • ABS Coolant Proof Exclusive Caliper NTD-PMX
7) Water-proof type with output button	1m: 05CZA662 2m: 05CZA663	293 293 293 314 329 343 345 350 369 406 422 468	• QuantuMike MDE-MJ • Coolant Proof Micrometer MDC-MJ/MJT • Coolant Proof Exclusive Micrometer (The end of the mark is –MJ/MJB) • Digimatic Exclusive Micrometer VM-M • Digimatic Exclusive Micrometer DMC-M • Digimatic Exclusive Micrometer OMP-M • Digimatic Exclusive Micrometer IMP-M • Coolant Proof Digimatic Micrometer Head MHN-MJ/MJN • Digimatic Exclusive Micrometer PDM-M • Digimatic Exclusive Micrometer OMV-M • Digimatic Exclusive Micrometer BLM-M • Digimatic Holtest HTD

Connector type	Cable length: Part No.	Applicable Digimatic measuring instrument (with output)	
		Series No.	Product name.
8) Round 6-pin type	1m:937387 2m:965013	121 164 227 227 227 293 293 329 337 339 345 350 468 515 568 810	• Digimatic Bench Micrometer BD • Digimatic Micrometer Head MHD-M/CM • Adjustable Measuring force Digimatic Micrometer CLM • Digimatic Disk Micrometer CLM-DK • Digimatic Micrometer Head CLM-MH • Quickmike • Digimatic Micrometer MDC • Digimatic Depth Micrometer DMC-DM • Digimatic Inside Micrometer Extension Rod Type IMZ-M • Digimatic Inside Micrometer Extension Pipe Type IMJ-M • Digimatic Inside Micrometer Caliper Type IMP-DM • Digimatic Micrometer Head MHN-DM/M/CM (including ABS-type dedicated calipers) • Digimatic Micrometer Holtest HTD • Digimatic Height Master HME • Borematic SBM-C • Hardness Testers HM-100/200, HV-100, HR-500, HH-411
9) Flat 10-pin type	1m:936937 2m:965014	174 178 179 211 211 302 303 318 515 518 519 542 543 544	• KC Counter (with Digimatic code output) • Surftest SJ-201/301/401, SV-400 • Digiderm DGE • Roundtest RA-112/122 • Roundtest RA-300/400 (with dedicated electronic analysis unit) • Precision Profile Projector PJ-3000 • Precision Profile Projector PJ-500 • Litematic VL • Digital Cera-Height Master HMD • Linear Height QMH-S • Digital Mu-Checker • Linear Gage Counter EB, EC-D, EF • Digimatic Indicator ID-F/H • Laser Scan Micrometer LSM
10) Flat straight water-proof type	1m:21EAA194 2m:21EAA190	543	• ABS Digimatic Indicator ID-N, ID-B
11) L type with output switch(cable outlet is right)	1m:04AZB512 2m:04AZB513	293 389	• Digimatic Micrometer • Digimatic Micrometer
12) Straight standard type	1m:06AGL011 2m:06AGL021	543	• Digimatic Indicator ID-CNX/FNX

* The appearance, specification, and price of the Digimatic (SPC) cables may be subject to change for improvement without notice.

MEMO

SERVICE NETWORK

*As of January 2024

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KOMEG Industrielle Messtechnik GmbH

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M[®] Solution Center Berlin

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M[®] Solution Center Eisenach

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TEL: 49(0)3691 88909-0 FAX: 49(0)3691 88909-9

M[®] Solution Center Ingolstadt

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M[®] Solution Center Leonberg

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West Midlands CV4 9XA, UNITED KINGDOM
TEL: 44(0)2476 426300

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