

DP-1VR

Digimatic Mini-Processor

Bulletin No. 1908



Mitutoyo's compact, affordable and easy-to-use data processing unit

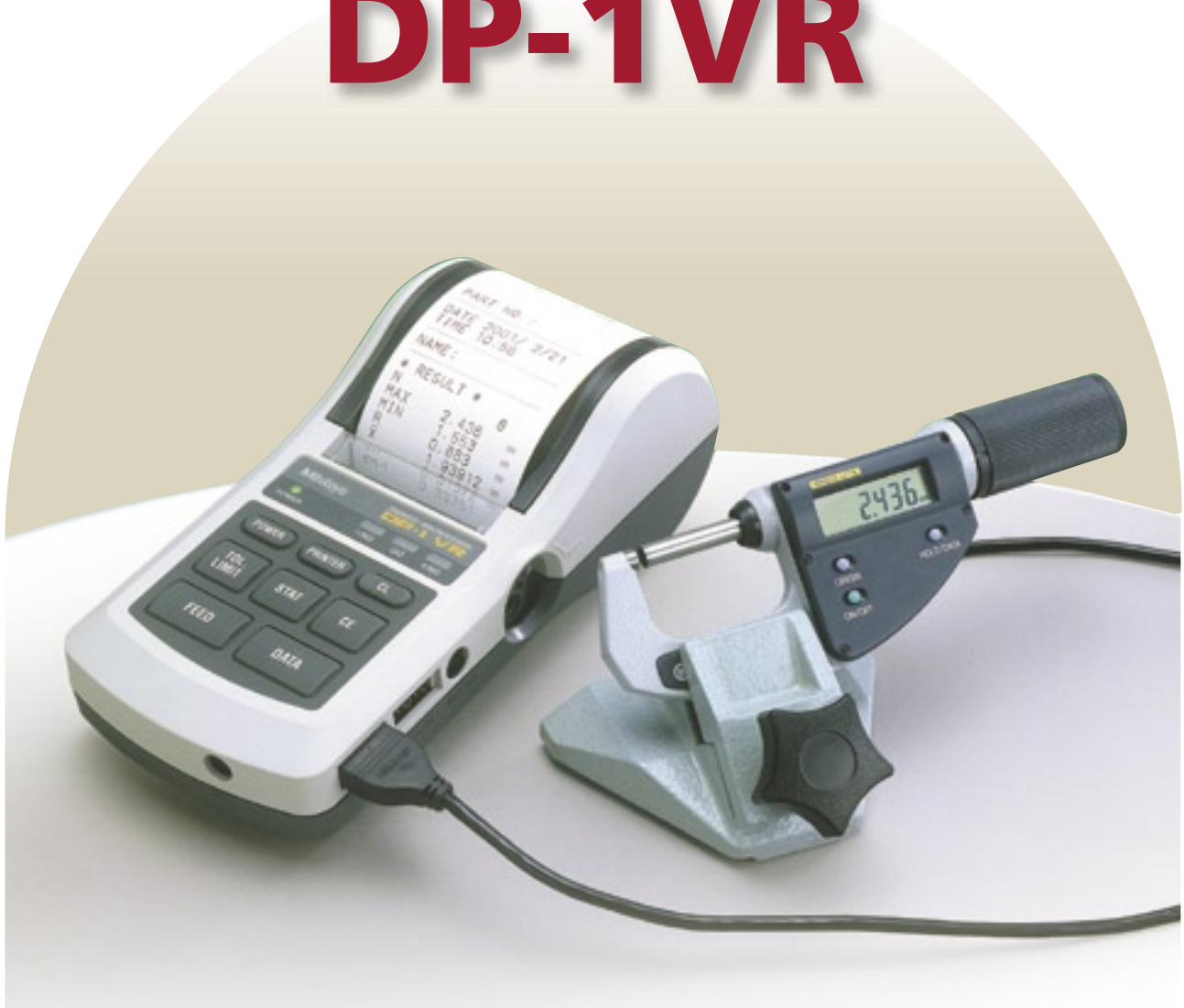
Mitutoyo

Compact and Powerful Data Processing Unit

FEATURES

Mitutoyo's DP-1VR is so compact, it fits right in your palm. But with this powerful little device you can print data from a Digimatic caliper, micrometer and more using the Data Output function, and can even calculate statistics. Printing speed is excellent and with the built-in thermal line printer there's almost no noise. Furthermore, the thermosensitive paper has outstanding durability and chemical resistance for long-term storage. The DP-1VR even lets you transmit data to a computer using an RS-232C connecting cable (09EAA084).

DP-1VR



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Four Choices of Data Processing Mode

Mode 0:
Record the measurement data and tolerance judgment.

Mode 1:
Record the measurement data, statistical analysis and histogram.

Mode 2:
Record the measurement data, statistical analysis and histogram.

Mode 3:
Record the measurement data, statistical analysis and histogram.

Labels in the image:
 - Lower limit (points to LSL in Mode 1)
 - Upper limit (points to USL in Mode 1)
 - Input data (points to data list in Mode 0)
 - Process capability index (points to Cp, Cpk in Mode 1)
 - Number of data (points to 'n' in Mode 1)
 - Number of division of the histogram (points to DIV in Mode 2)
 - L C U (points to L, C, U columns in Mode 3)



Large character

Mode 2:

A "D-chart" can be used to describe measurement data displacement visually. It's also possible to record the measurement data, statistical analysis and histogram at the same time.

Key functions

PRINT ON/OFF	Mode 0	Mode 1, 2
CL	Only measurement data clear. Press before setting limit.	
CE	Cancel the previous measurement data.	
TOL.LIMIT	Press before entering or finish the upper/lower measurement made.	
STAT	Do not operate	Print out calculation result in the form of a histogram based on analysis of input data.
FEED	Printer paper is fed when this key is pressed	
DATA	Enter data via measuring devices	
PRINT ON/OFF	Controls the printer's ON/OFF status	
POWER	Power ON/OFF	

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* DP-1VR *
* MODE 3 *

DATE 2002/ 2/27
TIME 10:45

SUB GR. NO. 1
1 27.54 mm
2 28.30 mm
3 27.71 mm
4 28.35 mm
5 27.43 mm
6 27.27 mm
Average 27.79
R 1.08
PART NO.:
DATE 2002/ 2/27
TIME 10:45
NAME:

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SUB GR. NO. 2
1 28.23 mm
2 28.07 mm
3 28.66 mm
4 29.20 mm
5 29.59 mm
6 29.11 mm
7 Range 78 mm
R 29.2343 mm
PART NO.: 2.71 mm
DATE 2002/ 2/27
TIME 10:45
NAME:

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Upper control limit (X control)

Lower control limit (X control)

Upper control limit (R control)

Lower control limit (R control)

Mode 3:
Automatically record the various calculation results to make a X-R control chart.

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* DP-1VR *
* MODE 0 *

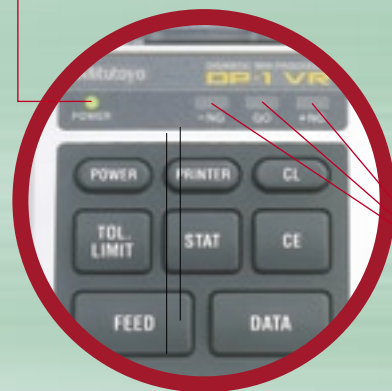
DATE 2002/ 2/27
TIME 10:49

1 32.91 mm
2 32.91 mm
3 33.21 mm
4 33.97 mm
5 34.04 mm
6 34.04 mm
7 35.22 mm
8 32.60 mm
9 32.92 mm
10 33.12 mm
11 33.86 mm
12 33.59 mm

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* The user can select large character format (excluding mode 2).

Power LED



Limit LED

Output connector

EXT.P jack

Input connector



Lever-operated paper cover

AC adapter jack

One touch setting for the printing paper

Key functions

PRINT ON/OFF	Mode 3	
	Subgroup in measurement	Subgroup after measurement
CL	Re-enter from data No.1	Only measurement data clear.
CE	Cancel previous measurement data.	Cancel previous subgroup.
TOL.LIMIT	Exit the measurement. Cancel measurement mode.	Go to next subgroup measurement.
STAT	Finish the subgroup measurement. Print the X-R calculation result.	Calculate and print out the control limit value from each subgroup to complete the entry.
FEED	Advance paper.	
DATA	Enter data via measuring devices	
PRINT ON/OFF	Controls the printer's ON/OFF status	
POWER	Power ON/OFF	

SPECIFICATIONS

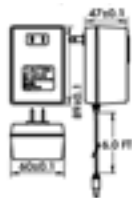
Order No.	264-504*
Printing method	Thermal line printer
Printing density	384dot (8dot/mm)
Printing speed	.26"/s (6.5mm/s) using AC adapter
Printing paper	1.89" (48mm)
Printing capacity per roll	Approx. 6500 lines for large characters Approx. 12000 lines for normal characters
Processing capacity	mode 1/2/3: 999 data mode 0: 100000 data
Printing data	Measuring data, GO/±NG judgment, number of data, maximum/minimum value, range, average, standard deviation, number of defective, function defective, process capability index, histogram, D-chart, control chart generation for Xd-bar and central limit data, data and time
Output function	Output of measuring data (RS232C) or GO/±NG judgment
Input timer	0.25s, 1s, 5s, 30s, 1 min, 30 min, 60 min
Power	AC adapter 6V (No interchangeable to DP-1HS Electric battery: LR6 (alkaline), ni-Mh (AA size))
Battery life	10 years (clock battery), 10000 lines (1600mA 1 time/5 sec. using the rechargeable battery)
Operating temperature	32°F to 113°F (0°C to 45°C) using AC adapter, 50°F to 113°F (10°C to 45°C) using battery
Storage temperature	14°F to 122°F (-10°C to 50°C)

*To denote your AC line voltage add the following suffixes (e.g. 264-504-5A).
-5A for 120V, -5D for 220V (Europe), -5E for 240V (UK),
-1K for 220V for Korea without AC adapter, -5F for 240V (Oceania)

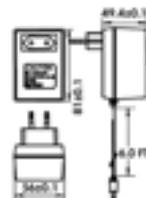
SPECIFICATIONS OF AC ADAPTER

Order No.	264-504*	Mass
09EAA119*	100V-240V	0.46 lbs. (210g)

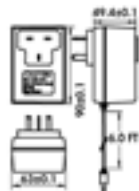
*To denote your AC line voltage add the following suffixes (e.g. 09EAA119A).
A for 110V/115V, D for 230V (Europe), SE for 230V (UK), K for 220V (Japan)
K for 230V (Oceania), DC for 220V (China), no suffix is for 100V (Japan)



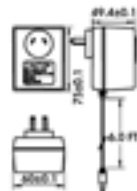
09AAE119,A,DC



09AAE119K,D



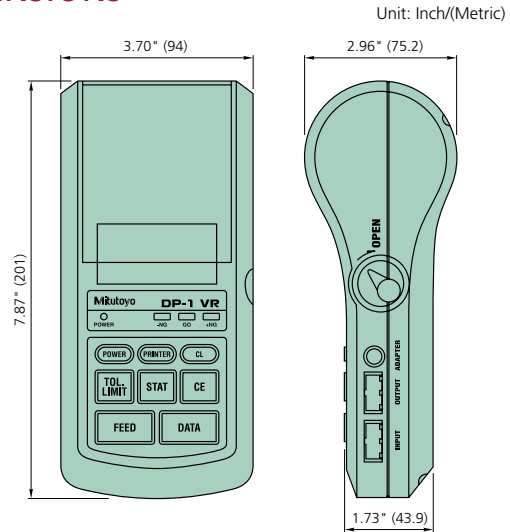
09AAE119E



09AAE119F

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DIMENSIONS



STANDARD ACCESSORIES

User's manual, Printing paper: 10 rolls (**09EAA082**),
AC adapter : **09EAA119A**(100V/115V),
09EAA119D(230V for Europe), **09EAA119E**(230V for UK),
09EAA119K(220V for Korea), **09EAA119F**(230V for Oceania),
09EAA119DC(230V for China),
Key operation quick reference, Wrist strap

OPTIONAL ACCESSORIES

- 09EAA084*** RS-232C signal cable (1m, 9pin)
- 965516*** GO/±NG judgment cable
- 937179T** Foot switch

* It is impossible to use both the RS-232C cable and GO/±NG judgment cable at the same time.

Alarm functions

- Line voltage** Voltage abnormality
- Paper end** No printing paper
- Head up** Paper cover open
- Head temperature** Thermal abnormality of printer head
- Over flow** Data input limit
- Battery** Low voltage clock battery
- Input data** Communication abnormality with measuring devices



- Coordinate Measuring Machines
- Vision Measuring Systems
- Form Measurement
- Optical Measuring
- Sensor Systems
- Testing Equipment and Seismometer
- Digital Scale and DRO Systems
- Small Tool Instruments and Data Management