Mini-Printer Equipped with Data Logging Function SERIES 264 — Digimatic Mini-Processor DP-1VA LOGGER

In addition to the conventional (DP-1VR) printing and statistical calculation functions, data logging and USB output functions are added and enhanced.

• This is a palm-sized printer used to print measurement data from Digimatic gages or to perform statistical analysis.



- The versatile **DP-1VA LOGGER** printer not only prints measurement data, but performs a variety of statistical analyses, draws histograms and D-charts and also performs complex operations on Xbar-R control charts.
- The data logger function allows storage of up to 1,000 pieces of data in memory and batch transfer of stored data to an Excel-format inspection certificate, etc., by connecting to a PC via a USB cable (optional).



LIMIT MODE
LIMIT DATA 1
NO LIMIT DATA
27.22 mm 28.27 88

27.22 mm 28.27 mm 1.05 mm

NEW LIMIT DATA *LIMIT DATA 1* DATE 2018/ 2/17 TIME 14:37

DATE 2018/ 2/17 TIME 14:38



Typical application



Example of printout

MODE1 MODE2

LIMIT D	ATA 1	
LSL USL TOL	ATA 1* 19.11 21.00 1.89	50 50
1 2 3 4 5 6 7 8	20.14 20.16 19.88 19.77 20.27 20.28 19.31	## ## ## ## ##
10	19.64 19.93 19.30 19.56	*** *** ***
30	18.00	0.0
PART NO. DATE 201 TIME 12:		
NAME:		
* RESULT N MAX MIN R X dn dn-1	* 30 21.06 18.99 2.07 19.9550 0.4801 0.4578	00 00 00 00 00
-NG +NG P Cp Cpk	5.667 0.658 0.615	x
* HISTO LSL USL TOL	GRAM * 19.11 21.00 1.89	nn nn nn
DIV	10	
12355553210	0	
D= 1		
A B C D W F F F F F F F F F F F F F F F F F F	19.1100 mm 19.2990 mm 19.4880 mm 19.6770 mm 19.8880 mm 20.0550 mm 20.2440 mm 20.4330 mm 20.6220 mm 20.8110 mm 21.0000 mm	

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	- IN	и	o	ш

SUB I	1 2	1 25.33 26.77 28.82	nr
	3	25.70	nr
	5	27.41	nr
	7	26.57	nr
Ř Ř		28.3486 4.98	0.0
PART	NO.:	0/47	
DATE	2018/ 14:40	2/1/	
NAME			
SUB		2	
	1 2	27.77	80
	3	27.98	00
	5	27.84 27.90	0.0
	6 7	28.85 28.85	20
X R PART	NO.:	27.7329 1.99	==
DATE	2018/ 14:40	2/17	
NAME			
CON DATE	TROL L1 2018/ 14:40	MIT 2/17	
NO. O	F SUB C	R. 2	
7		27. 0407	no
X-U	CL CL	28.5009 25.5805	no
R-U	CL	3.4850 6.7051 0.2649	20
H-L	CL.	0.2849	nn

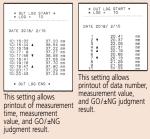
SPECIFICATIONS

Code No.	264-505*				
Model	DP-1VA LOGGER				
Data input	Digimatic input, RS-232C input (specific to Mitutoyo KA counter)				
Data processing	Mode 0: 100,000 pcs. of data Modes 1, 2: 9,999 pcs. of data				
capacity	Mode 3: Sample size 10×9,999 subgroups=99,990 pcs. of data				
GO/±NG judgment	Five sets can be defined				
Output	1) USB output 2) RS-232C data output at TTL levels 3) GO/±NG judgment result output (+NG, GO, –NG)				
Input timer	Input intervals: 0.25 s, 1 s, 5 s, 30 s, 1 min, 30 min, 60 min				
Printing method	Thermal line printer				
Printing speed	0.8 s per line (6.5 mm/s) (using AC adapter)				
Printing line	10,000 lines of normal characters per roll 7,000 lines of large characters per roll				
Printing paper	High durability thermo-sensitive paper, Width 58 mm × length 48 m				
	Note: If it is to be used for official documents, or stored more than 5 years, it is recommended to				
	make a more durable copy.				
Power source	2 power methods 1) AC adapter 100 to 240 V 50/60 Hz AC adapter (6 V, 2 A) as a standard accessory. 06AGZ369JA (JAPAN, US), 06AGZ369D (EU), 06AGZ369E (UK), 06AGZ369K (Korea), 06AGZ369DC (China) 2) 4 pcs. of LR6/AA size (alkaline or Ni-Mh)				
	Note: Manganese dioxide batteries are not usable.				
Battery life	About 10,000 lines* (if data is printed once every 5 seconds using 1,600 mA NiMH batteries at 20 °C) * This is a typical value and is not guaranteed.				
External dimensions	94 (W) ×201 (D) ×75.2 (H) mm				
Mass	390 g (main unit)				
Optional Accessories	1) USB cable (A-microB): 06AFZ050 (1 m) 2) RS-232C output cable: 09EAA084 (1 m, D-SUB 9-pin) 3) RS-232C counter cable: 09EAA094 Cable for KA counter (1 m, D-SUB 25-pin) 4) GO/±NG judgment cable: 965516 (2 m, 10 pin terminal/separate) 5) Foot switch: 937179T				
Consumable Items	Printing paper (10 rolls): 09EAA082				

^{*} To denote your AC line voltage add the following suffixes. A for North America, D for Europe, E for UK, K for Korea, DC for China, and no suffix is required for Japan.

In OUT LOG Setting 1 In OUT LOG Setting 2 In OUT LOG Setting 3

28.45 nn 26.97 nn 1.48 nn 27.8583 nn 0.4134 nn 0.4270 nn



* OUT LOG START * * LOG = 10

* GUT LOS START * 2018/ 2/15 10:28:28 21.00 mm 2 2018/ 2/15 10:28:31 20.10 nm 3 2018/ 2/15 10:28:33 19.60 nm 4 2018/ 2/15 10:28:37 19.03 nn

This setting allows printout of data number, measurement value, and GO/±NG judgment This setting allows printout of data number, measurement date and time, and GO/±NG





Example of printout

MODE1

Various statistical calculations are executed using all input data. If the tolerance limits have been set, GO/±NG judgment and histogram creation are also enabled.

Statistical calculation data

MODE0

GO/±NG judgment

MODE2

In addition to the MODE1 function, measurements within the tolerance limits are printed out as a D chart*. This chart allows you to identify the trend of variations in measurement data.

* D chart stands for Displacement chart.

MODE1, 2

N: Number of pieces of data MAX: Maximum value MIN: Minimum value

Nini: Minimum value
R: Range
X: Mean value
on: Standard deviation of a population (N)
on-1: Sample standard deviation (N-1)
-NG: For the number of pieces of data smaller
than the lower limit

+NG: For the number of pieces of data larger than the upper limit P: Percentage of rejects Cp: Maximum process capability potential Cpk: Actual process capability achieved

MODE3

Only input of data automatically enables calculation processing of complex control limit values as well as calculation for creating an Xbar-R control chart.

MODE3

N: Number of pieces of data MAX: Maximum value MIN: Minimum value n: Number of subgroups (up to 10) X: Mean value in a subgroup

R: Range of a subgroup X: Mean value X-UCL: Upper control limit
X-LCL: Lower control limit
R: Center (R control)

R-UCL: Upper control limit (R control) R-LCL: Lower control limit (R control)

