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

- 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).

Easy-to-see pictogram display

264-506
DP-1VA LOGGER

Typical application

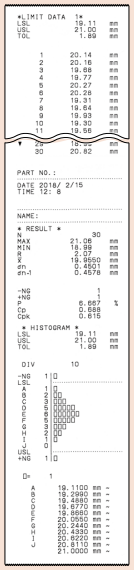
Measurement and storage at site

Transfer

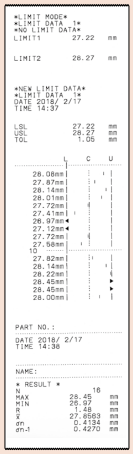
Analysis by PC

Example of printout

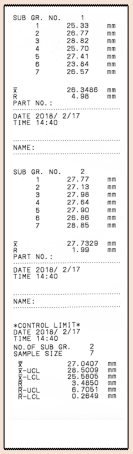
MODE1



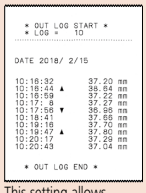
MODE2



MODE3

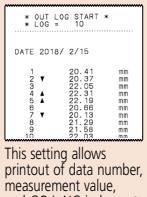


In OUT LOG Setting 1



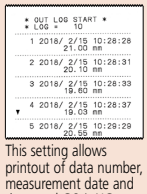
This setting allows printout of measurement time, measurement value, and GO/±NG judgment result.

In OUT LOG Setting 2



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

In OUT LOG Setting 3



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

Product catalog E12051

Video

SPECIFICATIONS

Code No.	**264-506***
Model	**DP-1VA LOGGER**
Data input	Digimatic input, RS-232C input (specific to Mitutoyo **KA** counter)
Data processing capacity	Mode 0: 100,000 pcs. of data Modes 1, 2: 9,999 pcs. of data 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.

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.

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.

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.

Statistical calculation data

MODE0

GO/±NG judgment

MODE1, 2

N: Number of pieces of data
MAX: Maximum value
MIN: Minimum value
R: Range
$\bar{X}$: Mean value
σn: Standard deviation of a population (N)
σn-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

N: Number of pieces of data
MAX: Maximum value
MIN: Minimum value
n: Number of subgroups (up to 10)
$\bar{X}$: Mean value in a subgroup
R: Range of a subgroup
$\bar{\bar{X}}$: Mean value
$\bar{X}$-UCL: Upper control limit
$\bar{X}$-LCL: Lower control limit
$\bar{R}$: Center (R control)
R-UCL: Upper control limit (R control)
R-LCL: Lower control limit (R control)

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