Measurement Data Management

Convenient data collection tool and quality control software

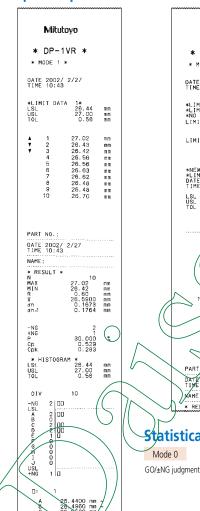
Data processing printer for quality control SERIES 264 — Digimatic Mini-Processor DP-1VR

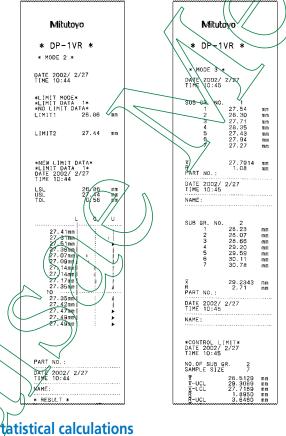
- This is a palm-sized printer used to print measurement data from Digimatic gages or to perform statistical analysis.
- The versatile DP-1VR printer not only prints measurement data, but performs a variety of statistical analyses, draws histograms and D-charts and also performs complex operations on X-bar R control charts.
- Equipped with RS-232C output and GO/NG judgment output as standard functions, this processor delivers the high reliability expected from an advanced quality inspection machine.
- This line thermal printer enables fast and guiet printing.





Examples of printout





Mode 3

N : Number of data MAX : Maximum value

n: Number of subgroup TX: Average value of subgroup R: Range of subgroup

R: Range
X: Average value
On: Standard deviation of the sample (N)

on-1 : Sample standard deviation (N-1) -NG : Number of data smaller than lower limit value +NG: Number of data larger than upper limit value : Fraction defective

Cp : Process capability index Cpk : Process capability index (process target centered)

MIN: Minimum value

Number of subgroup (Max.10)

X: Ave R: Range of subj. X: Mean value X-UCL: Upper control limit R: Mean (R control) R-UCL : Upper control limit (R control) R-LCL: Lower control limit (R control)

Specifications

- Order No.: 264-504
- Model: DP-1VR

 Data processing capacity:
 Mode 0: 100000 data items Modes 1,2: 9999 data items

Mode 3: Sample size (10 x subgroup 9999=99990 data)
Upper/lower limit value 5 pairs can be held in memory
Output: (1) RS-232C output/evel (TTL)

Output: (1) RS-232C output/evel (TTL) function (2) GO/±NG judgment output (+NG, GO, -NG)
Input timer: Input intervals
0.25s, 1s, 5s, 30s, 1min_30min, 60min
Printing method: Thermal line printer 384 dots/char
Character specification: Normal character 24 x 16 dots/Large character 36 x 24 dots
Printing accord: 0.5 powline (spin A/C addition)

Large character 36 x 24 dots

• Printing speed: 0.5s per line (using AZ adopter)

• Printing line: 10000 lines of normal characters/per roll

7000 lines of large characters per roll

• Printing paper: High durability thermosensitive paper

Width 58/min x length 48m

Note: Plinted characters bolnot fade if a printout is

stored in a cool dark place, but if it is to be used

for official documents, or stored more than 5

years, it is recommended that a copy be made.

• Power surply: 2 power methods

Power supply: 2 power methods
(1) AC adapter 100V (6VDC, 1000mA) supplied as a standard accessory.
(2) Apcs. of NR6/AA size (alkaline or Ni-Mh)

Battery life; 1000V fines (55/line using a 1600mAh Ni-Mh battery)
Note; This is a typical value and is not guaranteed.

 External dimensions: 94 (W) x 201 (D) x 75.2 (H) mm
 Mass: 390g (main unit)
 Optional Accessories: (1) RS-232C changing cable For connection with a PC Cable length 1m, D-sub 9 pin (2) RS-232C counter cable For connection with KA counter Cable length 1m, D-sub 25 pin

(3) GO/±NG judgment cable

Cable length 2m, D-sub 10 pin terminal/separate wires (4) Foot switch Printing paper (10 rolls)

RS-232C communication specification (Output specification)

Output signal level: TTL

Communication method: Half-duplex
 Communication speed: 1200/2400/4800/9600/19200

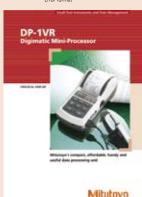
• Bit configuration: Start bit 1 bit 7/8 bit Data length: Even/odd/none Parity check: Stop bit:

• Data format



Display of a Digimatic gage Output data 0.123

| | Error code | | | | | Data request | Data request command | | |
|--------------|-----------------|---|---|-------|----|--|----------------------|----|--|
| | Number of bytes | 1 | 2 | 3 | 4 | Number of bytes | 1 | 2 | |
| | Data | 9 | 1 | Error | CR | Data | 1 or A | CR | |
| 2 (I 9 (I | | | | | | (No data input) (Loaded data with the format other than specified, (System error head temperature error, overflow, power supply/voltage error, head up, paper error) | | | |



Refer to the DP-1VR leaflet (E4209) for more details.



Modes 1,2

N : Number of data

MAX : Maximum value

MIN: Minimum value

Mode 0