

Small Tool Instruments and Data Management



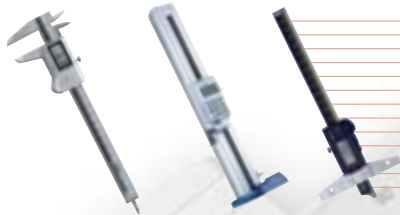
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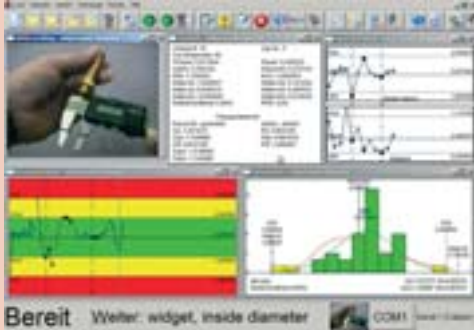
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PRODUCT NEWS



MeasurLink® Statistical software

Detailed information on page 15.



USB-Interface

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Data transmitter DMX-1 USB

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Data transmitter DMX-2 USB

Detailed information on page 20.



MeasurLink® Statistical software



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"DIGIMATIC" Mini-Processors



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Signal cables



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"DIGIMATIC" Data transmitters



Pages 19–23



Basic information to statistical process control SPC

- **Quality Control (abbreviated "QC")**

Inspection, analysis and action applied to manufacturing operation to economically achieve and maintain the required level of quality of the product and service. Statistical quality control (abbreviated SQC) applies statistical techniques to quality control.

- **Subgroup**

To investigate whether or not measurements are stable, samples are taken from the entire set of measurements and classified according to time, raw material, and other factors. Each set of samples is called a subgroup.

- **BIAS**

The difference between the mean (or estimated mean) of measurements and the expected value.

- **Dispersion**

A measure of the variation of measurements. The degree of dispersion is usually quantified in terms of the standard deviation.

- **Sample**

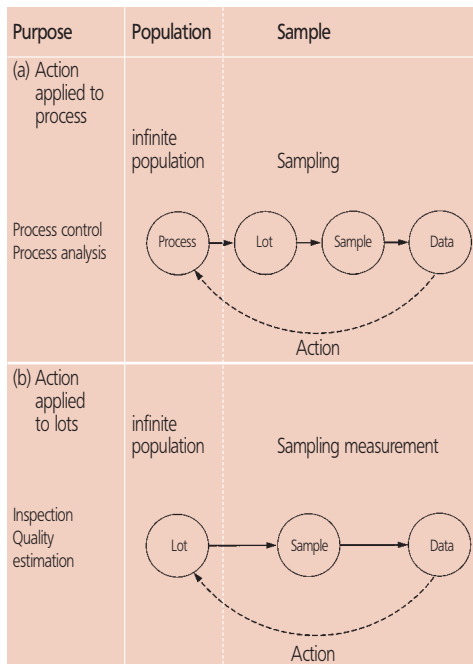
A collection of objects that are taken from a population in order to investigate specific characteristics.

- **Sample size**

The number of objects in a sample.

- **Population**

The entire group of objects to which statistical analysis is applied.



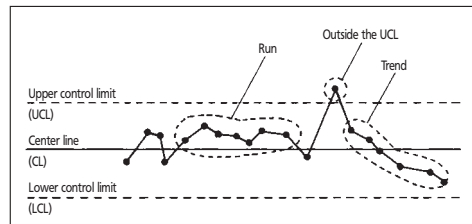
- **Process capability**

Process capability is the reproducibility of the product when the process is under control and any assignable causes of error have been removed.

- **Control chart**

The control chart shows the central tendency of the quality characteristics. It is used for effectively implementing process control by determining whether a variation in quality is assignable to a change in process conditions or to random causes.

A control chart consists of a center line (CL) and upper and lower control limit lines (UCL and LCL, upper and lower tolerance limits respectively) which are determined based on the past performance of the manufacturing process. If the characteristic values plotted on the chart are between the upper and lower control limits and are free from abnormal tendencies, the process is considered to be under control.

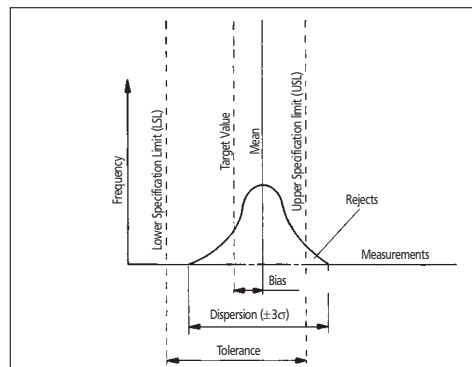


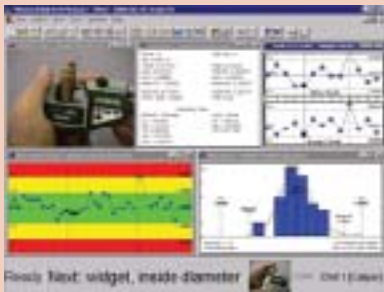
- **\bar{X} R chart**

The \bar{X} R chart is a combination of a \bar{X} chart (which indicates the mean of each subgroup) and an R chart (which indicates the range of dispersion). It provides very useful information for checking abnormal conditions based on the tendency of the mean and range of subgroups. It is often used for controlling the process in terms of dimensions, yield, tensile strength, and other quality characteristics of the product.

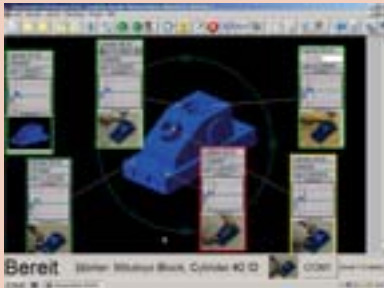
- **Histogram**

A graphical representation of the distribution of measurements by means of rectangles whose widths represents intervals into which the range (maximum - minimum) of observed values is divided and whose heights represent the number of observations occurring in each interval (frequency). It provides an overview of the mean and the degree of dispersion. When the plotted points are distributed in a symmetrical, bell-shaped form, it is called the normal distribution.





Real-Time_Stat-Measure



Real-Time-Plus_Stat-Measure-Plus



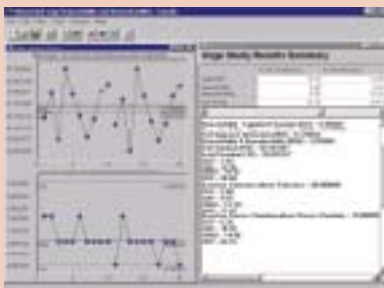
Process Analyzer



Process Manager



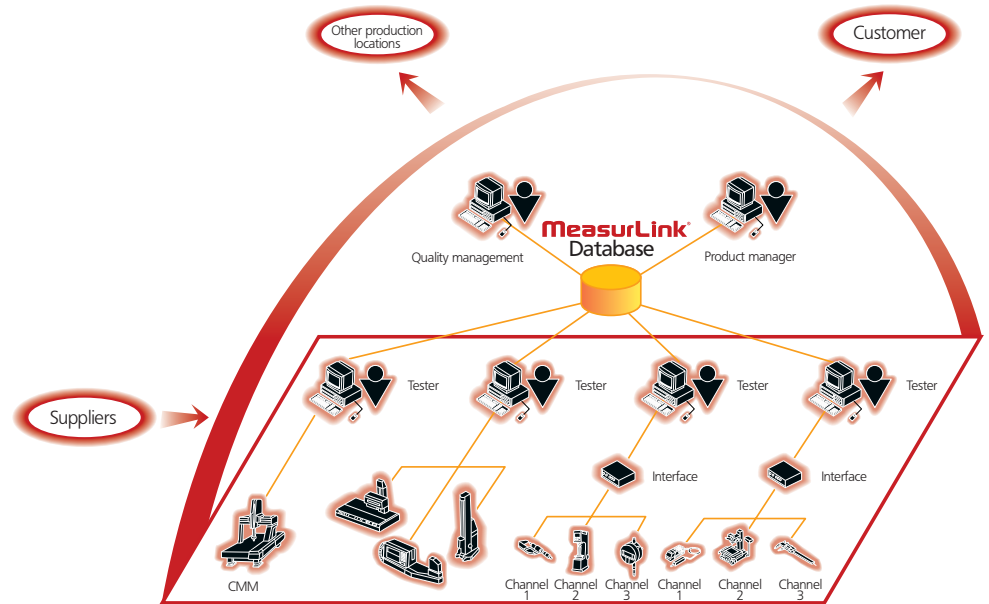
Gauge management



Gage-RR

MeasurLink®

The complete solution for quality data processing with no limits



Universal compatibility with custom functionality

Now all-encompassing quality assurance is even more efficient and convenient with measuring instruments from Mitutoyo and MeasurLink®, the comprehensive software for evaluating and exchanging quality data.

MeasurLink® supports all Mitutoyo digital measuring systems – from calipers through to vision systems or coordinate measuring machines.

Even data from analogue devices can be easily integrated into the process environment after manual acquisition.

With its open program architecture, MeasurLink® can even process the measuring results from instruments from other manufacturers and incorporate them into its own work processes. This places the user in a whole new dimension of measured-data-assisted quality assurance.

With MeasurLink®, all Mitutoyo measuring systems can now be combined in a single quality analysis system.

Data obtained from various instruments is collated centrally, evaluated and efficiently documented according to need. This database is then available to all users within the company, optimising quality assurance. It is completely irrelevant whether the measuring systems networked with MeasurLink® are concentrated in one site in the company or are scattered over several locations – one important benefit for international users.

What is more: the networking capabilities of MeasurLink® reach far beyond your own company. MeasurLink® can also link your supplier's Mitutoyo measuring systems into its own data monitoring process, regardless of whether the supplier is based in the immediate neighbourhood or on the other side of the world, and no matter what type of measuring system from the wide Mitutoyo range is used there.



Pocket-ML

"DIGIMATIC" Mini Processor Type DP-1 VR

- Mitutoyo's DP-1 VR is so compact, it fits right on your palm. But with this powerful little device you can print data from calipers, micrometers and other measuring devices equipped with DIGIMATIC port and even perform statistical evaluations.
- Printing speed is excellent, too, easy accessible with a one-touch start and with the built in thermal line printer there's almost no noise. The thermosensitive paper has outstanding durability and chemical resistance for long-term storage.
- The DP-1 VR even lets you transmit the data to a computer using an RS-232 C connecting cable.
- Easy printing function
- Excellent readability due to large character print
- Clock function for loading measuring data
- Processing Capacity for up to 9.999 data

Series 264



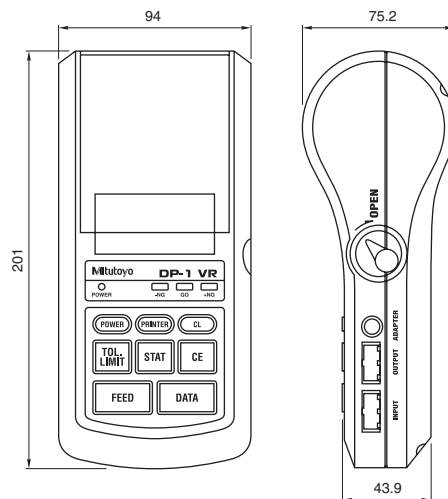
No. 264-504 D (DP-1 VR)



Example for application



No. 937179 T



Dimensions in mm

Specifications

No. 264-504 D	DP-1 VR
Printing method:	Thermal line printer
Printing dot:	384 dot (8 dot / mm)
Printing speed:	6.5 mm/s (using AC adapter)
Printing paper:	48 m
Printing line:	ca. 6500 lines for large characters ca. 12.000 lines for normal characters
Processing capacity:	Mode 1/2/3: 9.999 data Mode 0: 100.000 data
Printing data:	Measurement data, GO/±NG judgment, number of data, maximum / minimum value, range, average, standard deviation, number of defective, fraction defective, process capability index, histogram, D-chart, control chart generation for Xd-bar and control limit data, date and time
Output function:	Output the measuring data (RS-232 C) or GO/±NG judgment
Input timer:	0.25 s; 1 s; 5 s; 30 s; 1 min; 30 min; 60 min (0.25 sec. only statistical function)
Power:	AC adapter 6 V (no interchangeable to DP-1 HS) Electric battery: LR-6 (alkaline), Ni-MH (rechargeable, batteries are not charged in the device)
Battery life:	10 years (clock battery), 10,000 lines (1600 mA 1time/5 sec. using the nickel hydrofluoric battery)
Operating temperature:	(using AC adapter): 0° to 45° C/ (using battery): 10° to 45° C
Storage temperature:	-10° to 50° C

Standard accessories

- No. 09EAA088 D AC adapter
- No. 09EAA069 D Printer paper (1 roll)

Optional accessories

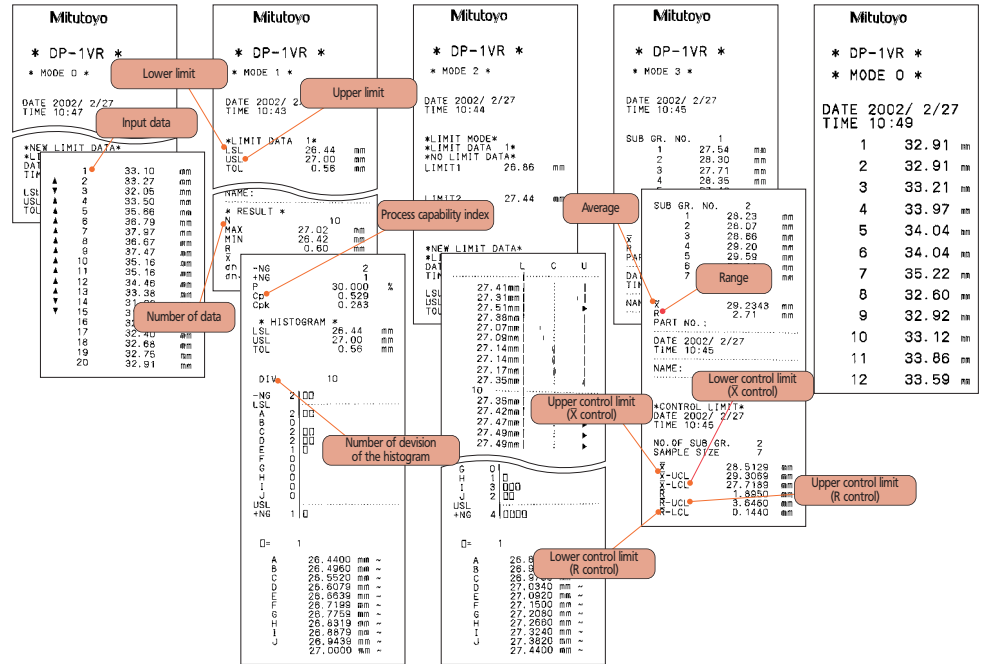
- No. 937179 T Footswitch
- No. 09EAA084 RS-232 C-Signal cable 1 m (9-Pin)
for connection DP-1 VR to PC
- No. 965516 GO/NG Cable
- No. 09EAA094 RS-232 C-Signal cable 1 m (25-Pin)
For DP-1 VR connection to display
Glass scale KS/KC/KL/KLL/KA

Consumable Spares

- No. 011037 LR-6 batteries (4 pieces)
- No. 011348 NI-MH-batteries (rechargeable)
- No. 09EAA082-5 Printer paper (5 rolls)

"DIGIMATIC" Mini Processor Type DP-1 VR

Series 264



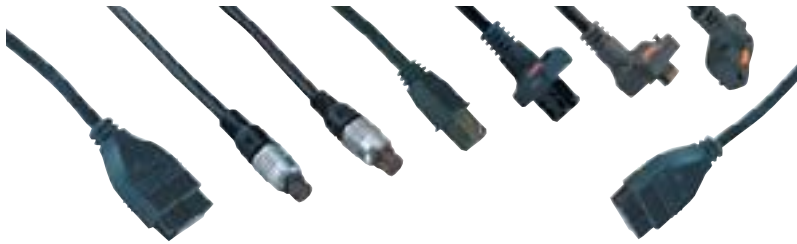
Key functions

PRINTER ON/OFF	Mode 0	Mode 1, 2
CL		Only measurement data clear. Press before setting limit.
CE		Cancel the previous measurement data.
TOLLIMIT		Press before entering or finish the upper/lower measurement mode. Cancel measurement mode.
STAT	Do not operate	Making histogram to printout the calculation result via statistical analysis
FEED		Printer paper is fed when this key is pressed
DATA		Enter data via measuring devices
PRINTER ON/OFF		Controls the printer's ON/OFF status
POWER		Power ON/OFF

Mode 3		
	Subgroup in measurement	Subgroup after measurement
CL	Reentering from data No. 1	Only measurement data clear.
CE	Cancel previous measurement data.	Cancel previous subgroup.
TOLLIMIT	Exiting the measurement.	Go to next subgroup measurement.
STAT	Finish the subgroup measurement. Printout the X-R calculation result.	Print out and calculate the control limit value from each subgroup to complete
FEED		Printer paper is fed when this key is pressed
DATA		Enter data via measuring devices
PRINTER ON/OFF		Controls the printer's ON/OFF status
POWER		Power ON/OFF

"DIGIMATIC" Signal Cables

- Mitutoyo's "DIGIMATIC"-format allows for connecting not only numerous additional devices, such as printers, counters and the like, but also for connecting one or more "DIGIMATIC"-measuring instruments to an external PC employing a Mitutoyo transmitter with RS-232 C signal cable.



Plug connectors to the measuring instruments

Plug connectors to the peripherals (DMX transmitters or data printers)

"DIGIMATIC" measuring instruments require either of the following items for data transmission:

1. Footswitch
2. Data key on the instrument (if present)
3. Data request from the PC
4. Signal cables with data key (if connectable to the measuring instrument)

Order No.		Port	Application with	Measurement instruments Signal cable plugs	
1 m	2 m				
905338	905409		ABSOLUTE DIGIMATIC Dial Indicator Type IDS (Series 543) ABSOLUTE DIGIMATIC Dial Indicator Type IDC (Series 543) ABSOLUTE DIGIMATIC Dial Indicator Type IDU (Series 575) ABSOLUTE DIGIMATIC Thickness gauge (Series 547) ABSOLUTE DIGIMATIC Caliper (Series 500 with the exception of IP-65/66/67 calipers, Series 550, 551, 573) "DIGIMATIC" Workshop Caliper (Series 552) "DIGIMATIC" Height gauge (Series 192, 570) ABSOLUTE DIGIMATIC Depth gauge (Series 547) Portabel hardness testing devices (Series 811) ABSOLUTE DIGIMATIC inside measuring device Bore Gage (Series 511)	Straight (without data key) 	
905689	905690		Back side (without data key) 		
905691	905692		Right (without data key) 		
905693	905694		Left (without data key) 		
959149	959150		with data key 		
05CZA662	05CZA663		with data key and screws 		
05CZA624	05CZA625		with data key and screws 		
937387	965013			ABSOLUTE Quick Micrometer (Series 227, 293) "DIGIMATIC" Micrometers (Series 293, 314, 317, 323, 324, 326, 331, 340, 342, 343, 369, 389, 395, 406, 422) "DIGIMATIC" Micrometer heads (Series 164) "DIGIMATIC" Standard micrometer (Series 121) "DIGIMATIC" Inside micrometer (Series 337, 339) Three-point inside micrometer "DIGIMATIC-Holtest" (Series 468) ABSOLUTE DIGIMATIC Borematic (Series 568) Height Micrometer "Heightmaster" (Series 515) Stationary hardness tester "Wizhard" (Series 810) Stationary hardness tester "Micro Vickers HM" (Series 810) Stationary hardness tester "Micro Vickers HV" (Series 810)	6 Pins (without data key)
937386	965012			HH-120/140 Portable hardness tester (Series 810) ATK Stationary hardness tester (Series 810) ARK Stationary hardness tester (Series 810)	10 Pins (without data key)
936937	965014			ABSOLUTE DIGIMATIC Dial Indicator Type ID-F (Series 543) "DIGIMATIC" Dial Indicator Type ID-H (Series 543) Portable surface roughness tester SJ-201 P/S/PR (Series 178) Portable surface roughness tester SJ-301/S/PR (Series 178) Portable surface roughness tester SJ-401/SJ-402 (Series 178) Profile projector PJ-Series (Series 303) Profile projector PH-Series (Series 172) Height Micrometer "CERA-Heightmaster" (Series 515) Linear Height Gage "Linear Height" (Series 518) Height gauge QM-Height (Series 518) "Mu-Checker" Electronic length measuring instrument (Series 519) LINEAR GAGES Counter (Series 542) LSM-6000 Counter for Laser Scan Micrometer (Series 544) Laser-Scan Micrometer LSM 9506 "DIGIMATIC" Multi-unit (Series 572) „LITEMATIC" VL-50 (Series 318)	Identical connectors on both ends (without data key)

"DIGIMATIC" Signal Cables

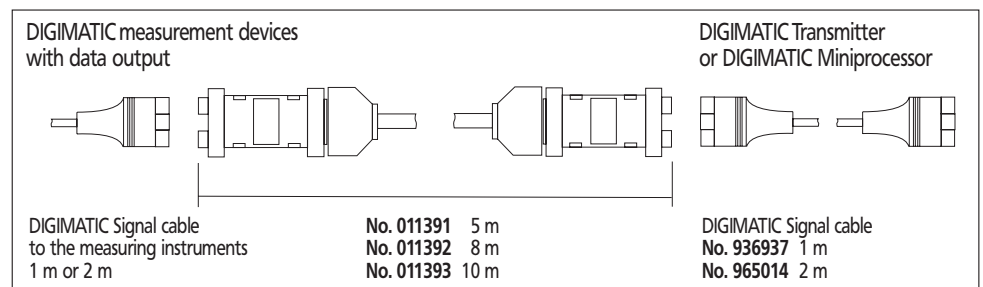
- Mitutoyo's "DIGIMATIC"-format allows for connecting not only numerous additional devices, such as printers, counters and the like, but also for connecting one or more "DIGIMATIC"-measuring instruments to an external PC employing a Mitutoyo transmitter with RS-232 C signal cable.

"DIGIMATIC" extension cable



No. 011393

Length	No.
5 m	011391
8 m	011392
10 m	011393



"DIGIMATIC" Data transmitter

"DIGIMATIC" USB interface

"DIGIMATIC" USB interface for connecting a "DIGIMATIC" measuring instrument to a PC-USB interface for direct reading into an application software such as Microsoft Excel.



No. 264-014



Interface parameters

Software compatibility: Windows 98
Windows 2000
Windows ME
Windows XP
Pocket PC 2002

Optional accessory

No. 937179T Footswitch

"DIGIMATIC" DMX-Transmitters

- Measuring device interface for transmitting measured values from Mitutoyo measuring instruments into appropriate application programs. The instrument communicates with the PC via a driver program generally included with the CAQ software. The application defines what measuring devices are to be read in, how often the measurement is to be repeated etc.

Type DMX-1 serial



No. 011216 DMX-1

The **DMX-1 serial** is a microcontrolled interface for connecting a measurement device with "DIGIMATIC" interface to an external computer featuring RS-232 C interface. The device works without external power supply (The handshake lines RTS and DTR are necessary for the power supply).
Incl. footswitch connector*.

* Data transfer can be initiated with footswitch available as optional accessory.

Type DMX-1 USB



No. 011442 DMX-1 USB

The **DMX-1 USB** is a microcontrolled interface for connecting a measurement device with "DIGIMATIC" interface to an external computer featuring USB interface. The device reports as "virtual" RS-232 C interface to the computer.
Incl. footswitch connector*.

* Data transfer can be initiated with footswitch available as optional accessory.

Type DMX-2 serial



No. 011189 DMX-2

The **DMX-2 serial** is a microcontrolled interface for connecting two measurement devices with "DIGIMATIC" interface to the RS-232 C interface of a computer. The device works without external power supply (The handshake lines RTS and DTR are necessary for the power supply).

Data transfer can be initiated with footswitch and adapter for footswitch available as optional accessory.

Type DMX-2 USB



No. 011443 DMX-2 USB

The **DMX-2 USB** is a microcontrolled interface for connecting two measurement devices with "DIGIMATIC" interface to the USB interface of a computer. The device reports, depending on setting as "virtual" RS-232 C interface or as keyboard to the computer.
Incl. footswitch connector*.

* Data transfer can be initiated with footswitch available as optional accessory.

Type DMX-3



No. 011253

Das **DMX-3** allows for connecting three measurement devices featuring "DIGIMATIC" interfaces to the RS-232 C interfaces. Power supply with AC/DC adapter (standard accessory).

Incl. footswitch connector*.

* Data transfer can be initiated with footswitch available as optional accessory.

Interface parameters

Type No.	DMX-1 serial 011216
Data output:	(D-SUB 9) RS-232 C
Number of input channels:	1
Baud rate:	9600 Baud
Data bits:	8
Stop bits:	1
Parity:	none

Type No.	DMX-1 USB 011442
Data output:	USB with RS-232 C (serial) Emulation
Number of input channels:	1

Optional accessories

No. 011196 Connecting cable for computer D-SUB 9 – D-SUB 9 (2 m)

No. 937179 T Footswitch

Interface parameters

Type No.	DMX-2 serial 011189
Data output	(D-SUB 9) RS-232 C
Number of input channels:	2
Baud rate:	9600 Baud
Data bits:	8
Stop bits:	1
Parity:	none

Type No.	DMX-2 USB 011443
Data output:	USB with RS-232 C (serial) or probe Emulation

Optional accessories

No. 011197 Connecting cable for computer D-SUB 25 – D-SUB 9 (0,2 m)

No. 011119 Connecting cable for computer D-SUB 25 – D-SUB 9 (2 m)

No. I-1502067 Connecting cable for computer D-SUB 25 – D-SUB 25 (2 m)

No. 011193 Adapter for footswitch

No. 937179 T Footswitch



011193

Interface parameters

Type No.	DMX-3 011253
Data output:	(D-SUB 9) RS-232 C
Number of input channels:	3
Baud rate:	1200/9600 Baud (adjustable with jumper)
Data bits:	8
Stop bits:	1
Parity:	none

Optional accessories

No. 011196 Connecting cable for computer D-SUB 9 – D-SUB 9 (2 m)

No. 937179 T Footswitch

No. 011444 Adapter cable USB to RS-232C

Interface parameters

Type	DMX 4-1
No.	011319
Data output:	(D-SUB 9) RS-232 C
Number of input channels:	4 / 2
Baud rate:	9600 Baud
Data bits:	8
Stop bits:	1
Parity:	none

RS-232 C connection options of:

- Layer thickness measuring device : DIGI-DERM 1100 / 2100
- Laser Scan Micrometer: LSM 5000 / 6000
- Linear scale display: KS counter (1 axis, 2 axes) + KA counter
- Contact arm dial gauge series 209
- EF display for linear gauge
- QM-Height
- Linear Height LH-600 B / C / CG
- Sartorius Balance MC 1
- Mettler Balance PM3000
- Kern Balance 510

Optional accessories

- No. 011196 Connecting cable for computer
D-SUB 9 – D-SUB 9 (2 m)
- No. 937179 T Footswitch

RS-232 C connection cable for DMX 4-2

- No. 011338 DIGI-DERM 1100/2100
- No. 011339 KS counter + KA counter
- No. 011340 EF-P counter, laser; LH-600 B / C / CG
- No. 011341 Contact dial gauge series 209
- No. 011342 Standard Opto RS-232
- No. 011343 Sartorius MC1 balance, Mettler balance
- No. 011344 Core 510 balance
- No. 011387 QM height

Interface parameters

Type	DMX-8
No.	011190
Data output	(D-SUB 9) RS-232 C
Number of input channels:	8
Baud rate:	9600 Baud
Data bits:	8
Stop bits:	1
Parity:	none

Interface parameters

Type	DMX-16
No.	011191
Number of input channels:	16
As for DMX-8	

Interface parameters

Type	DMX-16 C
No.	011255
As for DMX-16	

Optional accessories

- No. 011196 Connecting cable for computer
(2 m)
- No. 937179 T Footswitch

“DIGIMATIC” DMX-Transmitters

- Measuring device interface for transmitting measured values from Mitutoyo measuring instruments into appropriate application programs. The instrument communicates with the PC via a driver program generally included with the CAQ software. The application defines what measuring devices are to be read in, how often the measurement is to be repeated etc.

Type DMX 4-2

The **DMX 4-2** is an interface that allows for connecting four “DIGIMATIC” measuring instruments and two measuring instruments with Multi-RS-232 Interface to a PC with RS-232 C Interface.

The DMX 4-2 takes on the following functions:

1. Adaptation of the signal level of the measuring device to the requirements of the serial interface
2. Translation of the various measurement signals into a common format
3. Communication between measuring devices and PC (channel selection etc.)

Incl. footswitch connector*.

* Data transfer can be initiated with footswitch available as optional accessory.



No. 011319

Type DMX-8; DMX-16

The **DMX-8** and **DMX-16** are interfaces for connecting measurement devices featuring “DIGIMATIC” ports to the RS-232 C interface of an external computer. Power supply 220 V–240 V 50 Hz. Incl. footswitch connector*.

* Data transfer can be initiated with footswitch available as optional accessory.



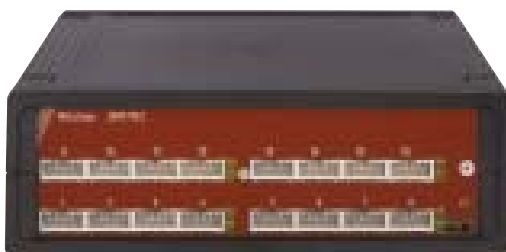
No. 011190

Type DMX-16 C

The **DMX-16 C** features integrated microprocessors for data processing, thus enabling simultaneous input from all measurement instruments and increasing data processing speed.

For the Dial indicators Series 575 integrated power supply and a ABS-ZERO key are made available.

Incl. footswitch connector*.



No. 011255

"DIGIMATIC" DMX-Transmitters

Type DMX-3 T USB

Keyboard interface

The measurement converter **DMX-3 T USB** allows for connection of three "DIGIMATIC" measurement instruments to the keyboard interface of an IBM-compatible computer. Thus applications asking for manual input of measurement data only (such as spread sheet calculation, word processing) are being provided with the respective interface. After the operator initiates data transmission the DMX-3 T USB simulates the keyboard input from the measurement device. The keyboard remains operative.



No. 011192



No. 011192

Type DMX-3 T/FS USB

Keyboard interface

Specifications same as DMX-3 T USB, but the measured values can only be triggered via footswitches. The footswitch is available as a special accessory.



No. 011220



No. 011220

"DIGIMATIC" Switch Box

The measurement switch box allows for connecting up to five "DIGIMATIC" measurement devices to a single "DIGIMATIC"-Data processor (e.g. DMX-1).



No. 011235



Interface parameters

Type No.	DMX-3 T USB 011192
Number of input channels:	3
Data output:	USB keyboard / PS2 keyboard

Standard accessory

Keyboard cable for PS2 keyboard
Connection: USB cable for direct connection to PC-USB

Interface parameters

Type No.	DMX-3 T/FS USB 011220
Number of input channels:	3
Data output:	USB keyboard / PS2 keyboard

Optional accessory

No. 937179 T Footswitch

Standard accessory

Keyboard cable for PS2 keyboard
Connection: USB cable for direct connection to PC-USB

Interface parameters

Type No.	Switch box 011235
Number of input channels:	5
Data output:	"DIGIMATIC"

Optional accessories

No. 936937 Signal cable (1 m)
No. 526688 D AC/DC adapter (9 V, 500 mA)
No. 937179 T Footswitch

"DIGIMATIC" Transmitters DL-1000 / DL-1000 M

- The "DIGIMATIC" DL-1000/DL-1000 M are data logger for storing measurement data that have been recorded by a "DIGIMATIC" measuring to be output to a computer.
 - The measuring device is connected to the I/O port of the DL 1000/DL-1000 M with a data cable and the measurement data are being transferred with the data switch on the measuring device or the DL 1000/DL-1000 M.
 - For data transfer to the computer the devices are hooked up to an interface connection with the computer. (See pages 20–22).
 - Data transfer from the DL 1000/DL-1000 M are being executed with the data or footswitch of an interface or upon request from the respective software.
- With regards to the interfaces of the measurement devices the DL 1000/DL-1000 M acts like a "DIGIMATIC" measurement instrument.
- Data can be output directly to a connected printer with "DIGIMATIC" interface.

Type DL-1000 / DL-1000 M



No. 011264 / No. 011264 M

Specifications

Type DL-1000
No. 011264
Type DL-1000 M
No. 011264 M
Dimension: 120 x 60 x 26 mm
Mass: 130 g

Memory

(DL-1000 / DL-1000 M): Up to 999 measurement values can be stored by the data loggers.
(DL-1000 M): Sample or feature related operation is possible.
A maximum of 100 features from 9 samples can be loaded. If the number of features is reduced, the available number of samples is increased. Based on the number of features, the DL-1000 M will calculate automatically how many samples are available.
If, e.g., you want to measure 10 features, you can choose a maximum of 99 samples.

Data format

All data are loaded or output in Mitutoyo "DIGIMATIC" compatible format.

Connection to measuring instruments

To output measurement values, DL-1000/DL-1000 M can be connected to any interface or protocol printer which allow for connecting Mitutoyo "DIGIMATIC" compatible measuring instruments.

Standard accessories:

1 battery (9 V) block Lithium
Signal cable 10 pole to 10 pole (0.25 m)

Optional accessories:

No. 936937 Signal cable (1 m)
No. 965014 Signal cable (2 m)

Keys and functions

Depending on the selected mode the keys of the Digi-Log enable the following functions:

	Measuring mode	Output mode
	Transfers the actual value at the cursor position to the Digi-Log. Same function as data switch on measuring device.	Transfer the displayed value of the Digi-Log to an interface or printer
	The DL-1000/DL-1000 M is turned off after 4 sec.	The DL-1000/DL-1000 M is turned off after 4 sec.
	Scrolls the list of measured data up or down by one value.	Scrolls the list of measured data up or down by one value.
	Scrolls the list of measured data up or down by 50 value.	Scrolls the list of measured data up or down by 50 value.
	Switches to output mode.	Switches to measurement mode.
	Mode < Erase memory? > No Yes	Mode < Erase memory? > No Yes
	Switches to block creation (DL-1000 M only).	All measurement values starting with the current position are output in 0,6 sec cycles.
	Not used.	All measurement values starting with the current position are output in 1,1 sec cycles.