



# Data transmission device Multiplexer DMX-1 USB Digimatic

## User manual

Read this User Manual before operating the instrument. After reading, retain it close at hand for future reference.

Translation of the German original user manual

BA304501

BOB2003A



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## Table of Content

1	Function.....	3
2	Interfaces.....	4
3	data format:.....	5
4	Accessories.....	6
5	Service network-EU.....	9

# 1 Function

Item number: 63AAA040

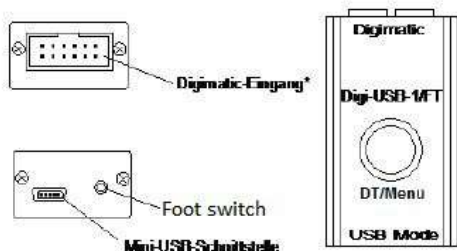


Image 1-1: DMX-1 USB

## DMX-1 USB

### Function

The DMX-1 USB is an interface box to connect a measuring device with DIGIMATIC interface to a PC. A foot switch can optionally be connect to the DMX-1 USB to trigger a measurement transmission. If you connect the DMX-1 USB to your PC the first time, you are asked to install the device specific driver. Have the enclosed CD for it ready on which you find the driver as well as a driver installation instructions.

**Warning: Please do not put the 8cm CD in Slot-in CD-ROM or CD-RW!**

## 2 Interfaces

### Plug & Play:

After the driver installation you can temporarily unplug the DMX-1 USB from your PC/notebook if you want to use the USB interface for other purposes or transport your notebook. The DMX-Serial-Port and USB-Serial-Converter won't be displayed anymore in the Device-Manager. However, the communications port-number will continue to be reserved for the DMX-1 USB. When you reinsert the DMX-1 USB make sure that you use the same USB interface. Otherwise the driver will be installed again, allocating another communications port number. Start the PC software only when the DMX-1 USB is connected. Otherwise the software might not be able to open the communications port.

<b>Interface Parameters:</b>	<b>Transfer rate:</b>	<b>9600 baud</b>
	<b>Start bits:</b>	<b>1</b>
	<b>Daten bits:</b>	<b>8</b>
	<b>Stop bits:</b>	<b>1</b>
	<b>Parity:</b>	<b>none</b>

### Value transmission:

A value transmission can be triggered in three different ways.

1. A request character is sent by the PC software. See Extended Instruction Set.
2. A value transmission is triggered at the measuring device itself, e.g. by pressing the data button.
3. The foot switch is pressed.

### 3 data format:

The instruction set is similar to the one used by the multiplexer MUX-10.

#### Commands

In the following all commands are listed. All of them require the terminator CR.

1	Measuring tool will be read
D1	Measuring tool will be disabled
E1	Measuring tool will be enabled
0	Measuring tool will be read
D0	Measuring tool will be disabled
E0	Measuring tool will be enabled

#### Measuring-data

All measuring data are transferred as ASCII-string. The string-length is fixed.

#### String of measured value

Example: *01A+1234.567[cr]*

1. Character	0	Measurement qualifier	Is always = 0 with measurements
2. Character	1	Channel number	The number of the measuring tool
3. Character	A	Measurement qualifier	Is always = A with measurements
4. Character	+	Sign	Plus or minus sign
5. - 12. Character	1234.567	Measured value	Measured value with a variable decimal point

#### Error-codes

An error message always consists of 3 ASCII characters completed with <sup>CR</sup>.

Example: 911<sup>CR</sup>

1. Character	9	Misidentification	Is always = 9 with error messages
2. Character	1	Channel number	The number of the measuring device
3. Character	1	Error code	1 = Device not connected, turned off or not externally requestable. 2 = Data format of the device isn't supported.

## 4 Accessories

Data cable to connect the measuring device to the DMX-1 USB:

**Article no.**

Mitutoyo 905 338

Mitutoyo 905 409

**Data cable for connection of the measuring tools to the DMX-1 USB**

Cable 1m without data button for DIGIMATIC measuring caliper

Cable 2m without data button for DIGIMATIC measuring caliper

Mitutoyo 959 149

Mitutoyo 959 150

Cable 1m with data button for DIGIMATIC measuring caliper

Cable 2m with data button for DIGIMATIC measuring caliper

Mitutoyo 937 387

Mitutoyo 965 013

Cable 1m for DIGIMATIC micrometer

Cable 2m for DIGIMATIC micrometer

Other cables are available on request.

Mitutoyo 937179T Foot switch







## 5 Service network-EU

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