

USB and RS-232 Input Tool

Single Gage Data Collection Device

Main Specifications of 264-020

Output specification: USB2.0 or USB1.0

Supported driver software: Changeable between two types

1) Stand-alone: HID keyboard device*

2) Using **USB-ITPAK V3.0/MeasurLink®**: Virtual COM port (VCP)

Communication speed: 12 Mbps (Full Speed)

Power source: USB bus power

USB2.0 certificate

Conforms to EMC Directive

* This product is compatible with the standard driver software for Windows. No dedicated driver software is required.



The Input Tool, an HID* keyboard device (standard driver software for Windows) is **automatically recognized** when connected to a USB port.

* HID (Human Interface Device)

Specifications of IT-007R RS-232C Communication

• Output specification: RS-232C compliant

Communication method: Full duplex

Communication speed: 2400 bps (fixed)

Bit configuration: Start bit 1

Data length 8

(Most significant bit, 0 (fixed))

Parity, None

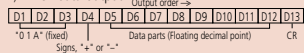
Stop bit 1

Flow control: None

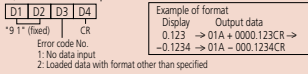
Home position: DCE (modem definition)

• Data format

1) When data output



2) Error code output



Example of format
Display Output data
0.123 → 01A + 0000.123CR →
-0.1234 → 01A - 000.1234CR

• Data request signal

Data can be output by transmitting a character from the PC.

• Connector specification and power supply from the PC

This product operates while accumulating the power supplied from the PC. A second or more input interval is required.

Pin No.	Symbol	in/out	Description of functions
1	(N.C.)	—	No connection
2	RXD	OUT	Data output from this product to the PC
3	TXD	IN	Data input from the PC to this product
4	DTR	IN	+12 V power supply from the PC*
5	GND	—	Ground
6	DSR	OUT	Not used
7	RTS	IN	+12 V power supply from the PC*
8	CTS	OUT	Not used
9	(N.C.)	—	No connection

* When connecting to a sequencer, a power supply is required.

Input voltage: Supplied in the range 6 V to 16 V

Power supply terminal: Supplied to pins 4 and 7

Note: "4" and "6", "7" and "8" are connected with each other inside this product.

Measurement Data Input Tool Input Tool SERIES IT-020U/IT-007R

• **264-020 (IT-020U)** is an easy-to-use, expandable USB input tool with a large data switch and a foot switch connector.

264-007 (IT-007R) is an RS-232C communication-type input tool that can be controlled by data request commands from a PC.

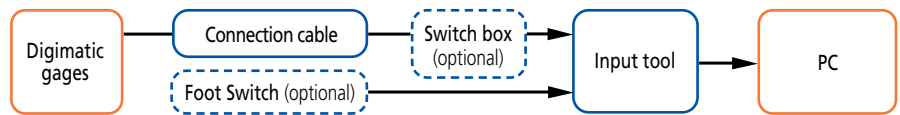


264-020



264-007

264-020/264-007 System Configuration

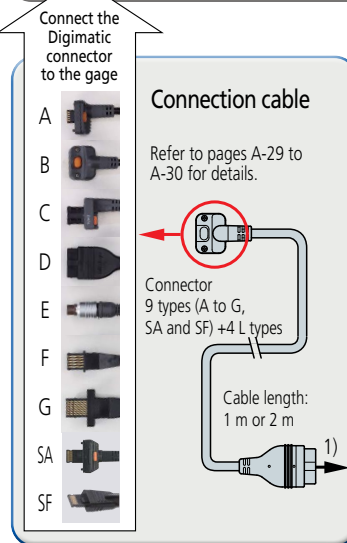


Digimatic caliper

Digimatic micrometer

Digimatic indicator

Refer to pages A-29 and A-30 for details of Digimatic ports and connectors.



Foot switch (optional)

937179T



Connection cable 2 m

Gage selector 3 (optional)

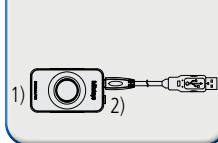
939039



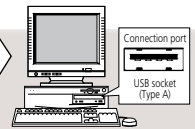
This selector can connect up to 3 measuring gages and switching is available with the slide switches without changing connection cables.

Connection cable (length: 1 m) between two input tools is a standard accessory (936937).

USB keyboard signal conversion model
Model: IT-020U
264-020



Connect the unit to a USB port of the PC

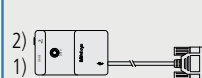


System Environment

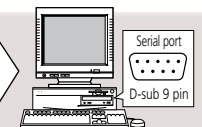
- Hardware:
PC with USB socket (Type A)
- Supporting OS (**USB-ITPAK V3.0**):
Windows 10 64 bit
- Software:
Programs supporting keyboard input (Excel, Word, memo pad, etc.)
USB-ITPAK V3.0 (optional)

Note: Information regarding **USB-ITPAK V3.0** can be downloaded from our website.

RS-232C communication conversion type
Model: IT-007R
264-007



Connect the unit to a serial port of the PC



System Environment

- Hardware:
PC or sequencer with a serial port (D-sub 9 pin)
- Software:
A program compatible with the RS-232C communication (such as a hyper terminal) is required.