

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.

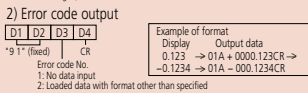
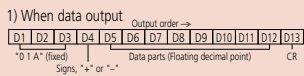
* HID (Human Interface Device)

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



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.

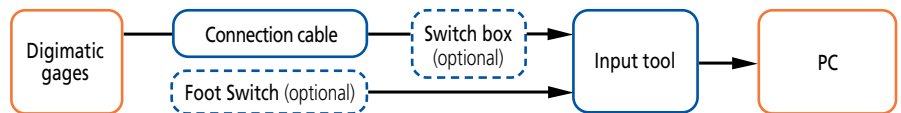
Measurement Data Input Tool Input Tool SERIES IT-020U/IT-007R

• **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.

• It can be connected to various types of measuring instruments using required SPC cables.(refer to pages A-29 to A-30)
 • When using with optional software (refer to page A-11), you can easily create Microsoft Excel worksheets, enabling further improvement of work efficiency.



264-020/264-007 System Configuration



Connect the Digimatic connector to the gage

Refer to pages A-29 to A-30 for details.

Connector 9 types (A to G, SA and SF) +4 L types

Cable length: 1 m or 2 m

Connect the unit to a USB port of the PC

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

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.

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**).

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.

Data output is available by transmitting data request commands from the PC.