

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

Main Specifications of IT-020U

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/V2.1**: Virtual COM port (VCP)

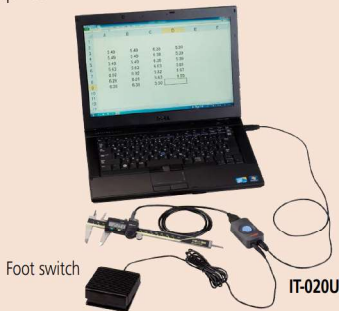
Communication speed: 12 Mbps (Full Speed)

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 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

Output order	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
"0.1 A" (fixed)													
Signs: "+" or "-"													
Data parts (Floating decimal point)													
CR													

2) Error code output

Error code No.	D1	D2	D3	D4
"9 1" (fixed)				
CR				
1: No data input				
2: Loaded data with format other than specified				

• 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.

• **IT-020U** is an easy-to-use, expandable input tool with a large data switch and a foot switch connector. **IT-007R** is an RS-232C communication-type input tool that can be controlled by data request commands from a PC.



IT-020U

• It can be connected to various types of measuring instruments using optional connection cables.

• When using with optional software (refer to page 09-15), you can easily create Microsoft Excel worksheets, enabling further improvement of work efficiency.



IT-007R

IT-020U/IT-007R System Configuration

