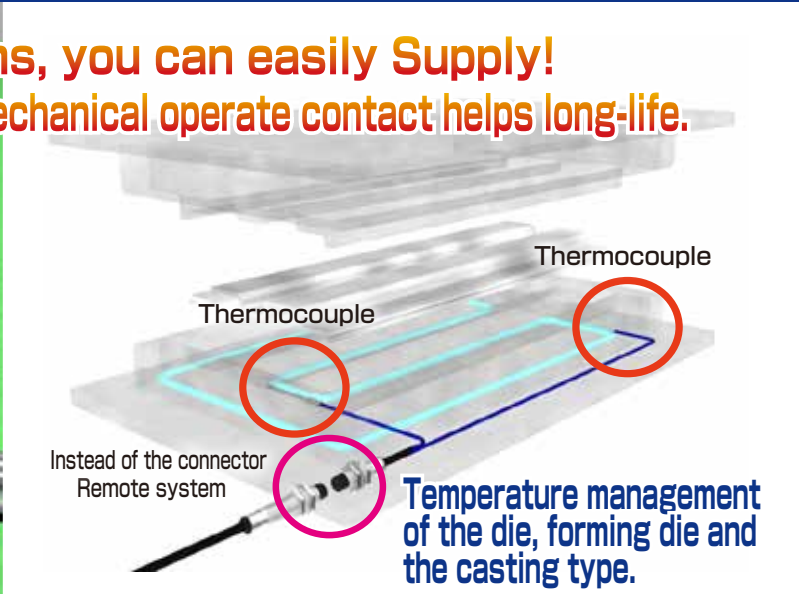
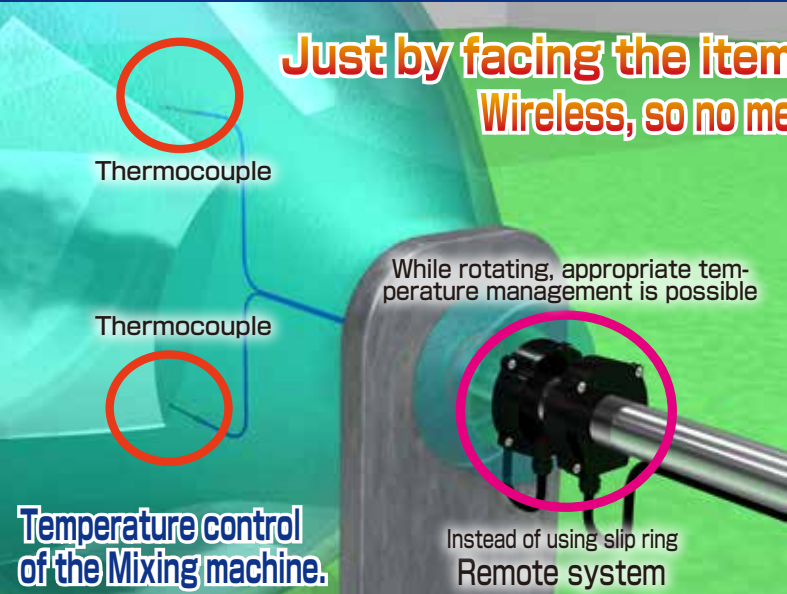




Thermocouple type

Temperature sensor type

Applications

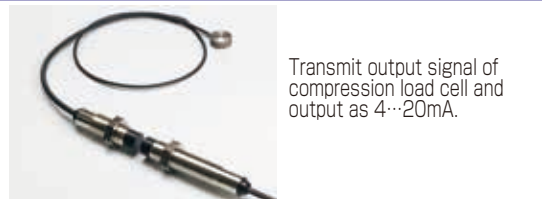


Introduction the products

Analog sensor type(1 signal)

Load cell type(1 signal)

Resistance thermometer type (1 signal)



Transmitter	RNT-1803-VS10-PU-01
output sensor	RNE-1803A-PU-02
Output	0...10V x1 signal
Transmission range/Center offset	0...2.5mm/ ± 2 mm
protection class	IP67
Response delay	≤ 0.2 sec.
Sensor type	Analog sensor output 0...10V
Operating temperature	0...+60°C
Size Transmitter	M18 X 76mm
Output sensor	M18 X 94mm

Transmitter	RNT-1804-LC10-PU-01 ; RNT-1804-LC15-PU-01 ; RNT-1804-LC20-PU-01
output sensor	RTE-1804E-PU-02
Output	4...20mA x1 signal
Transmission range/Center offset	1...4mm/ ± 2.5 mm
protection class	IP67
Response delay	≤ 0.5 sec.
Sensor type	compression load cell 350 Ω ± 10%
Input sensitivity	1mV/V ; 1.5mV/V ; 2mV/V
Operating temperature	0...+60°C
Size Transmitter	M18 X 61mm
Output sensor	M18 X 94mm

Transmitter	RTT-1804-PT1B10-PU-01 ; RTT-1804-PT1B20-PU-01 ; RTT-1804-PT1B30-PU-01
output sensor	RTE-1804E-PU-02
Output	4...20mA x 1 signal
Transmission range/Center offset	1...4mm/ ± 2.5 mm
protection class	IP67
Response delay	≤ 0.5 sec.
Sensor type	Standard Resistance Thermometer type Pt100 3-wire
Measuring	0...100°C ; 0...200°C ; 0...300°C
Operating temperature	0...+60°C
Size Transmitter	M18 X 61mm
Output sensor	M18 X 94mm

Thermocouple type (K, J) 1 transmission M18, M30 type



Transmit the temperature measuring signal of thermocouple K, J type and output it as 4...20mA.

	M18 type			M30 type
Transmitter	RTT-1804-K-100	RS02T-018-K300 RS02T-018-K1000	RS02T-018-J300	RS02T-030-K300
output sensor	RTE-1804E-PU-02	RS02E-018E-PU-02	RS02E-018E-PU-02	RS02E-030E-PU-02
Output	4...20mA x 1signal			4...20mA x 2signals
Transmission range/Center offset	1...4mm / ± 2.5mm			2...6 mm / ± 4mm
protection class	IP67			
Response delay	≤ 0.5 sec.			
Sensor type	JIS Thermocouple K		JIS thermocouple J	JIS Thermocouple K
Measuring range	0...1000°C	0...300°C 0...1000°C	0...300°C	0...300°C
Operating temperature	0...+60°C		0...+80°C	
Size Transmitter	M18 X 76mm	M18 X 61mm	M30 X 74mm	M30 X 95mm
Output sensor	M18 X 94mm	M18 X 94mm		

Thermocouple type (K, J) 2 signals ring type

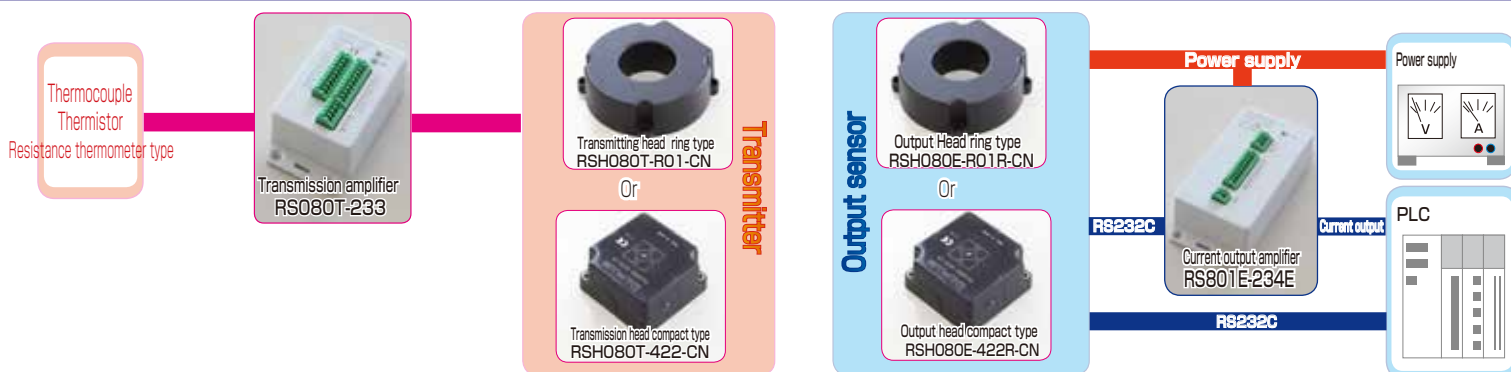


Transmit the temperature measuring signal of thermocouple K/J type and output it as 4...20mA. The central inside diameter for medium size of φ 50mm and large size of φ 100mm are available.

	Diameter φ 50 types		Diameter φ 100 types
Transmitter	RS02T-R01-K300 RS02T-R01-K1000	RS02T-R01-J300	RS02T-R03-K300
output sensor	RS02E-R01E-PU-02		RS02E-R03E-PU-02
Output	4...20mA x 2 signals		
Transmission range/Center offset	0...8mm/ ± 8mm		0...9mm/ ± 8mm ^{*1}
protection class	IP67		
Response delay	≤ 0.5 sec.		
Sensor type	JIS Thermocouple K	JIS Thermocouple J	JIS Thermocouple K
Measuring range	0...300°C 0...1000°C	0...300°C	0...300°C
Operating temperature	0...+50°C		
Size (Transmitter-Output sensor)	φ 116 x D 35mm		φ 156 x D 35mm

installation screw], please prepare for M8 screw x4 pcs.
*1 when with metal shaft

Temperature sensor Specification (Thermocouple 8signals/Resistance thermometer 2signals/ Thermistor 2signals)



Type	Transmission amplifier	Transmitting head	Output Head	Current output amplifier
	RS080T-233	RSH080T-422-CN (compact) RSH080T-R01-CN (ring)	RSH080E-422R-CN (compact) RSH080T-R01-CN (ring)	RS801E-234E
Output	RS232C Max 8ch (When using output amplifier: Current output 4-20mA Max 8ch)			
Transmission range/Center offset	compact: 0...3mm / ± 3mm		ring: 0...6mm / ± 6mm	
Protection class	No Protection class: IP67		IP67	
Compatible sensor type and max. transmission signal	Thermocouple:8signals Resistance thermometer:2signals, Thermocouple:2signals			
Operating temperature	Compact: 0...70°C		Ring: 0...50°C	
Connection cable between the head - amplifier	06F-MOBS01-02 (Straight, 2m) / 06F-MO8R01-02 (Angle, 2m)			
Size (Transmitter-Output sensor)	Compact: H55 X W55 X D 25mm		Ring: φ 116 X D 35mm	

installation screw], please prepare for M8 screw x4, a compact type: M4 screw x2, an amplifier:M4 screw x4.

- The setting of the temperature sensor is simple and easy. Connect PC to a transmission amplifier using the attached software.
8 signals transmission of Thermocouple (J,K,E,N,R,S,T,B)
2 signals transmission of resistance thermometer type (RTD PT-10,50,100,200,500,1000/ RTD 1000/RTDNI-120)
2 signals transmission of Thermistor (44004/44033,44005/44030,44007/44034,44006 /44031, 44008/44032,YS1400,Spectrum 1003K)
- Please contact for initial setting of the transmission amplifier.
- A temperature signal output by an output head is a serial signal of RS-232C. Possible to input to PLC or a PC of the serial interface. In addition, using the current output amplifier, and convert into 4...20mA.

Introduction of the custom example

Please let us know your requests.

Custom development request is also available, please feel free to contact us.



Case 1

Integrating the sensors.

We've commercialized an integral type with the sensor specified by the customer, and reduced the labor of sensor wiring and improvement of waterproofness.

Case 2

Request for the shape that fits the equipment.

Various shapes such as ring and sector that are easy to install on the axis. Prepared exclusive board in accordance with the customer's demands.

Case 3

Wants to use other than thermocouple J or K.

Customized 2 signals type of thermocouples to standard type to 2 signals types B types. Depending on customers requests.

Wireless Power Supply by
B & PLUS K.K.

Mail : b-plus-usa@b-plus-kk.com

Web : http://www.b-plus-kk.com

* Info may change the mention contents such as specifications without a notice.

Thank you for understanding

* Please refer to instruction manual or the user's guide. It can be download by HP.