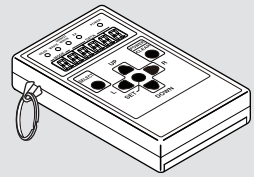
Anywire AnyWire System Product Guide

AnyWire Address Writer

ARW-04

Infrared non-contact type | Remote head wearable



The Product Guide describes individual products. Refer to the Guide as necessary.

■When using for the first time
Confirm the contents (P6 to 8) in the [Internal Setting].

[Notes on Safety]

Precautions that must be observed in order to use this system safely are indicated as shown below.
You must observe these precautions.

WARNING A WARNING indicates a potentially hazardous situation which, if not handled correctly, could result in death or serious injury.

CAUTION A CAUTION indicates a potentially hazardous situation which, if not handled correctly, may result in personal injury or property damage.

WARNING

- System Safety
  This system is intended for general industrial applications. It does not have functions for supporting applications requiring higher levels of safety such as safety-related devices or accident prevention systems. The product must not be used for these purposes.
- Always turn off the power before attempting to mount or replace.
- For change of setting in the direct mode, values are updated to the changed values when they are written. Please note that direct changes of addresses and others may result in unexpected operation.

CAUTION

- System power supply
  Use a stable, 24V DC power supply. Use of an unstable power supply may cause problems with the system.
- Separately route high-voltage and power cables
  Although the AnyWire System has a high noise margin, keep the transmission line and I/O cables away from high-voltage and power cables.
- Connectors and terminals
  - Pay careful attention to the length and installation of cable wiring to ensure that connectors and cables are neither overloaded nor disconnected.
  - Make sure to prevent any metal objects from getting inside the connectors or the terminal blocks.
  - Short-circuits caused by metal objects or mis-wiring are likely to damage the device.
- Do not impose any external loads on the units. Doing so may cause a failure.
- Do not disconnect or reconnect between the transmission line and slave units. A malfunction may occur.
- Use the AnyWire System within the range of the specifications and conditions shown below.

[Features]

-This is a unit of the AnyWire system. It is used for setting address numbers and operating specifications of units with a setting port.
This writer enables address numbers and parameters to be set by the non-contact method.
- Reading and writing can be performed.
- As the body is small-sized and driven by battery, it has no power code and can be taken anywhere.
- As address numbers are displayed at a 7-segment display unit and can be used directly at the decimal scale, this eliminates inconveniences that it is hard to see the switch in a dark place and the set value must be calculated.
- A remote head (ARW-RH) to make writing in a narrow space or small-sized unit easier is prepared (separately sold).
- The writer has an automatic shutout function to protect the battery even when the power is left on. (The condition in the middle of the setting operation returns to the content before setting.)

[Type]

ARW-04	Infrared non-contact address writer
ARW-RH	Remote head for narrow space and small part (sold separately)

Also available is a set of ARW-04 and ARW-RH.
Model: ARW-04-RH

[Warranty]

■ Warranty period
The warranty on the delivered Product shall continue to be effective for one (1) year after the delivery thereof to a location as designated by the original owner.

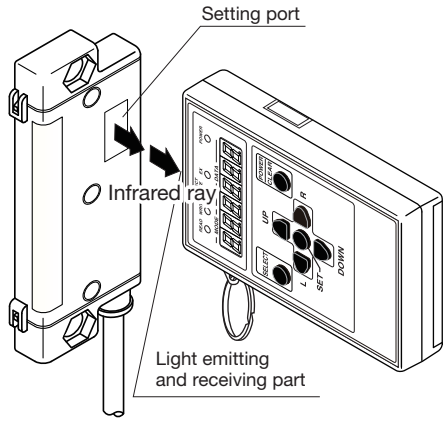
■ Scope of warranty
Should a defect occur in any part of the Product during the foregoing warranty period when it is used normally in acordance with the specifications described in this User's Manual, the Company shall replace or repair the defect free of charge, except when it arises as a result of:
[1] Misuse or abuse of the Product by the owner;
[2] Fault caused by other than the delivered Product;
[3] The unauthorized modification or repair of the Product by any person other than the Company's personnel;
[4] Any unusual force of nature, disaster or other cause beyond the Company's control.
The term "warranty," as used herein, refers to the warranty applicable to the delivered product alone. The Company shall not be liable for consequential or incidental damages resulting from any malfunction.

■ Repair at cost
After the expiration of the warranty period, the owner shall be responsible for all costs and expenses incurred for the troubleshooting and repair of the Product. Even during the warranty term, the Company shall repair any defects arising from causes other than within the scope of the warranty as specified above, at the owner's cost.

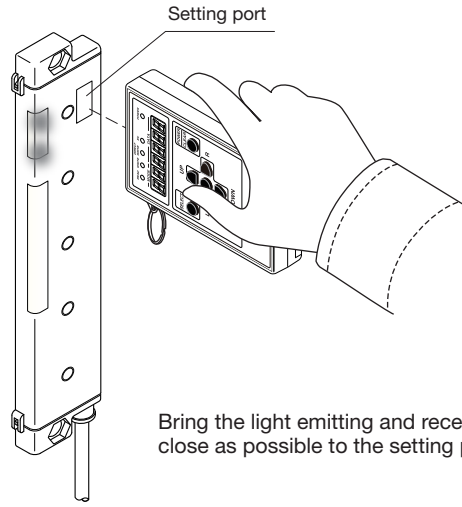
[Overview]

ARW-04 can read address numbers written in a terminal or write address numbers to a terminal using infrared ray.
As the infrared ray emitting and receiving part is less influenced by ambient light, the writer can be used almost anywhere indoors.
And the writer is capable of transmission and reception by pointing the light emitting and receiving part at the setting port of the unit and operating it because of the diffusion-type light emitting and receiving system.

■Image of address reading

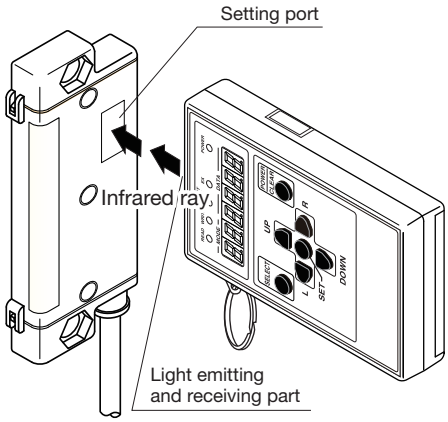


■Image of operation



Bring the light emitting and receiving part as close as possible to the setting port.

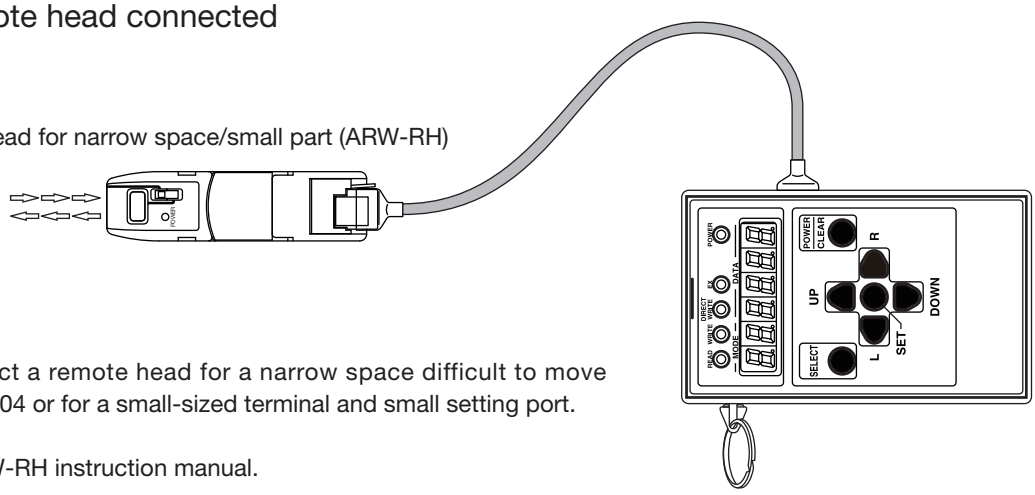
■Image of address writing



⚠ CAUTION When the light emitting and receiving part of ARW-04 and the setting port of a unit to be set are in strong ambient light such as direct sunlight, it may be impossible to write and read addresses.
In such cases, please shade the light by your hands, etc.

■Image with a remote head connected

Remote head for narrow space/small part (ARW-RH)



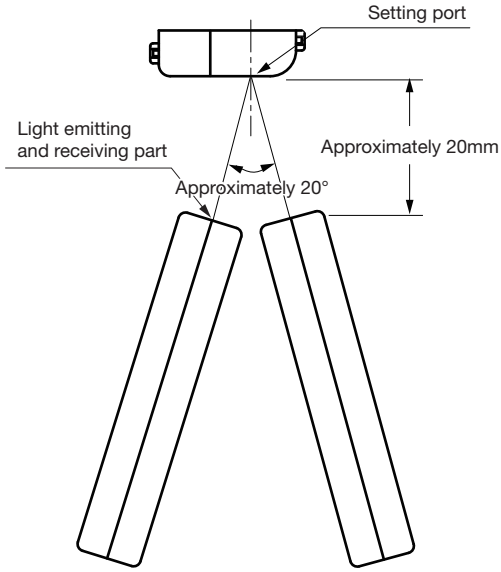
It is convenient to connect a remote head for a narrow space difficult to move close to the body of ARW-04 or for a small-sized terminal and small setting port.

For ARW-RH, refer to ARW-RH instruction manual.

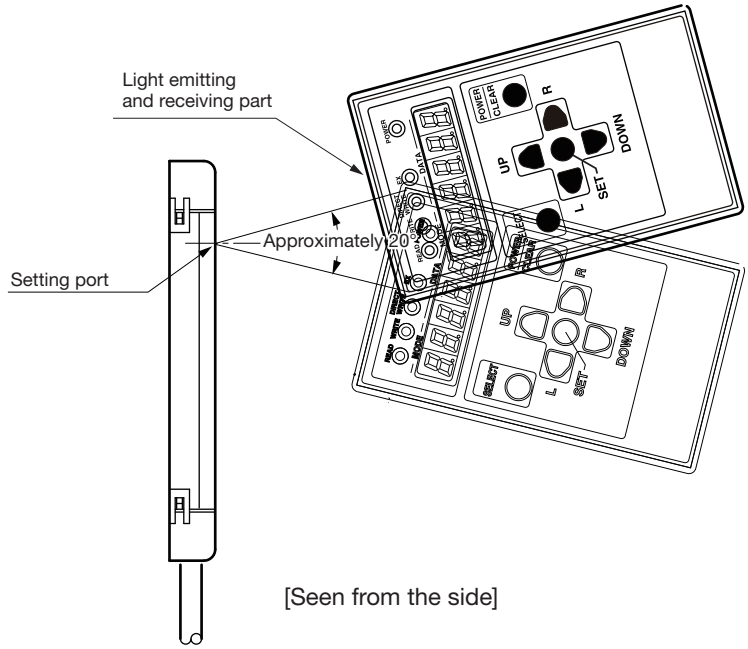
[Operation range]

Bring the light emitting and receiving part as close as possible to the setting port of the target unit to operate.
The guideline for the light emitting and receiving range is as follows:

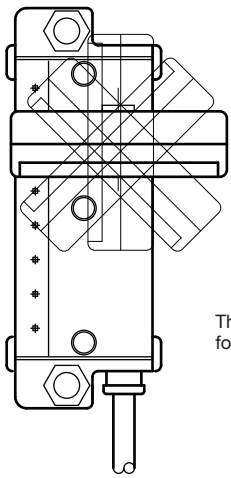
■Guideline for positions in reading and writing address numbers



[Seen from the top]



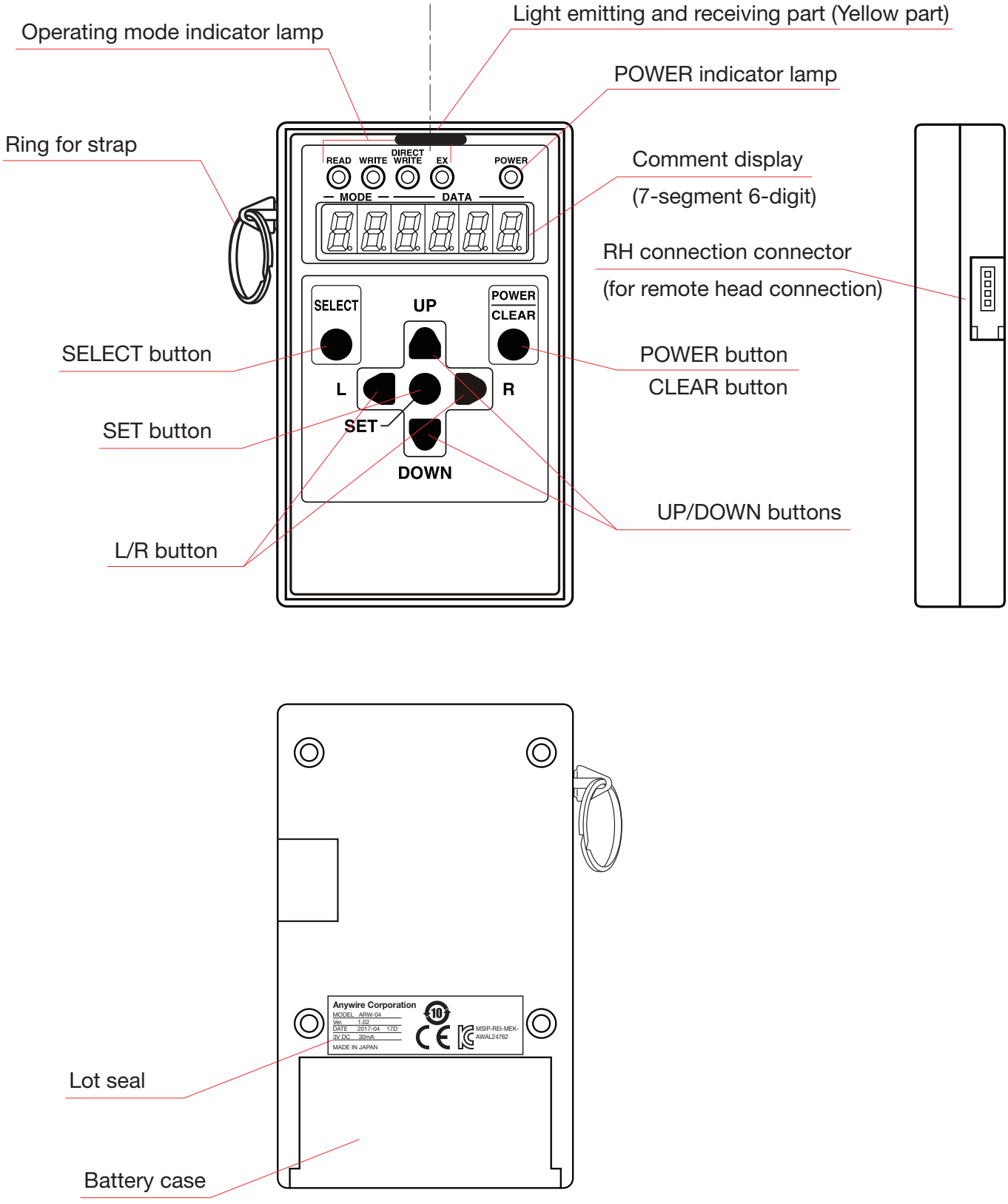
[Seen from the side]



The vertical directions are not specified for the front of ARW-04.

[Front]

[Name of each part]



[Operation Mode]

The following operations are available for the ARW-04.

Item	Function explanation	Set value renewal timing	Mode to be selected	Explanation page
Internal setting	Perform the internal setting of the address writer.	When the power is reset.	Maximum points setting mode (Factory setting: 512)	6.7.8
			Maximum number of parameters setting mode (Factory setting: 18*)	
			Decimal/hexadecimal display setting mode (Factory setting: Decimal)	
			Automatic carry of parameter set value YES/NO setting mode (Factory setting: NO)	
			Address writer mode (Factory setting: ARW-04)	
Teaching	Adjust ASLINKSENSOR or ASLINKAMP.	Immediately after operation	EX mode	9
Reading	Read an address number or parameter.	–	READ mode	10.18
Writing	Write an address number or parameter.	When the power is reset.	WRITE mode	12.19
Direct writing	Write an address number or parameter.	Immediately after operation	DIRECT WRITE mode	13.20

* The factory setting is 0 when DATE of the Lot seal is 2017-4 17D or before.

When using an address writer for the first time, confirm the next section, "Internal Setting", and after completing the internal setting, perform various setting operations.

⚠CAUTION

Since the maximum number of parameters of factory setting DATE2017-5 17E or after is "18," the reading or writing of parameters is already possible in the status of factory setting, but confirm with the product manual of each product and perform the setting of the maximum number of parameters to prevent the writing of unnecessary parameters.

Since the maximum number of parameters of factory setting DATE2017-4 17D or before is "0," setting is required to read and write parameters.

Also, regarding the maximum points setting, although it can be used in the factory setting (512 points), match the internal setting of the address writer with the writing target device to prevent the writing of wrong address numbers. (Ex.: In case of AnyWireASLINK, maximum points setting is 256 points.)

[Internal Setting]

Before using the address writer, confirm the series or number of parameters of set target products and match the internal setting of the address writer with them.

■Contents to be checked

The contents to be checked are the "maximum points setting mode," "maximum number of parameters setting mode," "decimal/hexadecimal display setting mode," "automatic carry of parameter set value YES/NO setting. mode," and "address writer mode."

Factory setting	Setting item	Set value	Content of set value
Ad 512	Maximum points setting mode (Factory setting: 512)	Ad 256	The upper limit address number is 255
		Ad 512	The upper limit address number is 511
Pn 18	Maximum number of parameters setting mode (Factory setting: 18*)	Pn 00 ～ Pn 19	The number of parameters available in the parameter mode (Ex.) Pn 04 If the parameter is set to 04, 4 types (01to 04) can be selected in parameter mode
dh dEC	Decimal/hexadecimal display setting mode (Factory setting: Decimal)	dh dEC	Decimal display
		dh HEX	Hexadecimal display
PA no	Automatic carry of parameter set value YES/NO setting mode (Factory setting: NO)	PA YES	When the parameter set value is changed, carry is automatically performed
		PA no	When the parameter set value is changed, carry is not automatically performed
Nd d04	Address writer mode (Factory setting: ARW-04)	Nd d04	ARW-04
		Nd d03	ARW-03 (This is a former address writer mode. Four-digit numbers are not available. It works in decimal, automatic carry YES mode.)

* The factory setting is 0 when DATE of the Lot seal is 2017-4 17D or before.

●Maximum points setting mode

Perform setting depending on the used AnyWire series to prevent the writing of wrong address numbers.

	Maximum points setting	
	256 points	512 points
Address number available for setting	0～255	0～511

⚠CAUTION Although address setting for all series is available in the factory setting (512 points), unexpected operation may caused by the writing of address numbers of 256 or more in the case of AnyWireASLIK, Bitty series. Use the writing target system and internal setting together to prevent the writing of wrong address numbers.

Maximum control points of AnyWireASLINK, Bitty series: Input 256 points/output 256 points (AnyWire DB A20 series: Input 512 points/output 512 points)

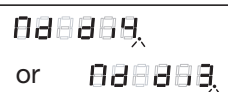
●Maximum number of parameters setting mode

The number of parameters available for setting depends on products.
Set it according to products to prevent a malfunction caused by the writing of unnecessary parameters.

⚠CAUTION Since the maximum number of parameters of factory setting DATE2017-5 17E or after is "18," the reading or writing of parameters is already possible in factory setting, but confirm with the product manual of each product and perform the setting of the maximum number of parameters to prevent the writing of unnecessary parameters. Since the maximum number of parameters of factory setting DATE2017-4 17D or before is "0," reading or writing parameters is not available until the internal setting is completed.

■Setting operation

		How to operate	Display	Content of display	Set sound
Maximum points setting mode	1	Turn ON the POWER button pressing SELECT button	Ad 256 or Ad 512	Current maximum points setting mode	Beep, beep, beep
	2	Press the SET button	Ad 256. or Ad 512.	Flashing dots move to the right	Beep
	3	Display the number to be set by the UP/DOWN buttons to press the SET button (Pressing the R button displays Ad 256.)	SEt Ad 256. Ex.)	After "SET" is displayed, the set value is displayed again When 256 points are set as the maximum points.	Beep BEEP!
	4	Press the L button or the CLEAR button	Ad 256 or Ad 512	Flashing dots move to the left	Beep
Maximum number of parameters setting mode	5	Press the UP button once to set the number of parameters to set	Pn 00 ~ Pn 19	Current maximum number of parameters selected	
	6	Press the SET button	Pn 00. ~ Pn 19.	Flashing dots move to the right	Beep
	7	Display the number to be set by the UP/DOWN * buttons to press the SET button (Pressing the R button displays Pn 00.)	SEt Pn 10. Ex.)	After "SET" is displayed, the set value is displayed again When 10 is set as the number of parameters.	Beep BEEP!
	8	Press the L button or the CLEAR button	Pn 00 ~ Pn 19	Flashing dots move to the left	Beep
Display setting mode	9	Press the UP button once to set the 7-segment display method	dh dEC or dh HEH	Current 7-segment display method	
	10	Press the SET button	dh dEC. or dh HEH.	Flashing dots move to the right	Beep
	11	Display the number to be set by the UP/DOWN buttons to press the SET button (Pressing the R button displays dh dEC.)	SEt dh HEH. Ex.)	After "SET" is displayed, the set value is displayed again When set to hexadecimal display	Beep BEEP!
	12	Press the L button or the CLEAR button	dh dEC or dh HEH	Flashing dots move to the left	Beep
Automatic carry of parameter set value YES/NO setting mode	13	Press the UP button once to set YES or NO for the automatic carry of parameter set value	PA YES or PA no	Current parameter automatic carry YES/NO	
	14	Press the SET button	PA YES. or PA no.	Flashing dots move to the right	Beep
	15	Display the number to be set by the UP/DOWN buttons to press the SET button (Pressing the R button displays PA no.)	SEt PA no. Ex.)	After "SET" is displayed, the set value is displayed again In case of setting the automatic carry to NO	Beep BEEP!
	16	Press the L button or the CLEAR button	PA YES or PA no	Flashing dots move to the left	Beep

		How to operate	Display	Content of display	Set sound
Address writer mode	17	Press the UP button once to set the address writer mode		Current address writer mode	
	18	Press the SET button		Flashing dots move to the right	Beep
	19	Display the number to be set by the UP/DOWN buttons to press the SET button (Pressing the R button displays )		After "SET" is displayed, the set value is displayed again	Beep BEEP!
			 Ex.)	When ARW-04 mode is set	
	20	Hold down the POWER button to turn OFF the power			

[Teaching…EX mode]

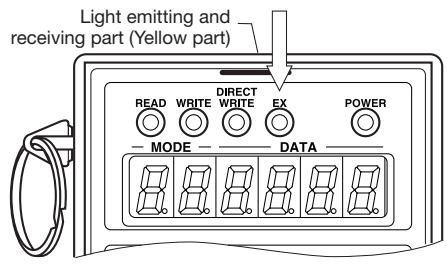
This is the mode to perform teaching [operation to store the status of the presence/absence of work before use in memory], which is necessary when using ASLINKAMP and ASLINKSENSOR.

> **⚠ CAUTION** The necessity of teaching setting depends on products. Refer to the product manual of each product for details.

■Setting operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-101	After the version is displayed	Beep beep
		SELECt	SELECt flashes	
2	Press the SELECT button	------	----Flashing	Beep
3	Press the SELECT button several times to display EX	EX (red)		Beep
4	Press the SET button	SEtonA	SEt on mode	Beep
5	After the state where the corresponding terminal detects a work, point the light emitting and receiving part at the setting port, and press the SET button	SEoo	During the setting operation	Beep
6	When SEton setting is correctly set, “Good” is displayed and then “SEton” is displayed again.	Good	Correctly completed	BEEP!
		SEtonA	Setting is completed	
7	If SEton setting is not correctly set, “SE Err” is displayed. Readjust the light emitting and receiving part to press the SET button again until Operation No.6 is completed	SE.Err	Err display	Beep, beep, beep, beep, beep
8	After SEton setting is completed, press the UP or DOWN button once	SEtoFFA	SEt oFF mode	
9	In the state where there is no work in the corresponding terminal, point the light emitting and receiving part at the setting port, and press the SET button	SEoo	During the setting operation	Beep
10	When SEtoFF setting is correctly set, “Good” is displayed and then “SEtoFF” is displayed again	Good	Correctly completed	BEEP!
		SEtoFFA	Setting is completed	
11	If SEton setting is not correctly set, “SE Err” is displayed. Readjust the light emitting and receiving part to press the SET button again until Operation No.10 is completed	SE.Err	Err display	
12	- Clear the Err display - Button the mode to another mode Press the CLEAR button			
13	If moving to the next setting, press the SELECT button	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)		

EX must be lighted



After using ARW-04, keep the POWER button pressed to turn OFF the power.

[Address number reading…READ mode]

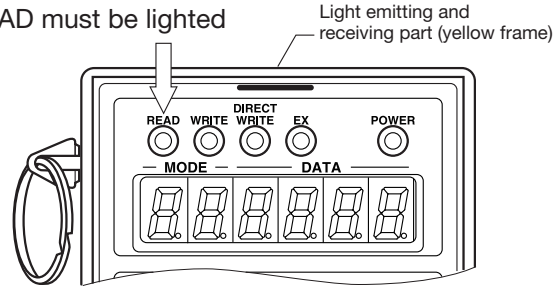
This is the mode to read the address numbers written in a unit.

Check that power (in the case of 2-wire type, transmission signal) is supplied to the target unit.

■Address reading operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-01	After the version is displayed	Beep, beep
		SELECt	SELECt flashes	
2	Press the SELECT button	------	----Flashing	Beep
3	Press the SELECT button several times to display READ	READ (green)		Beep
4	Press the SET button	Ad.----	The READ mode is determined	Beep
5	Point the light emitting and receiving part at the setting port of the target unit, and press the SET button	Adoooo	During the reading operation	Beep
6	In the case of success in reading	Ad.150 Ex.)	The address number is displayed When the read address number is 150	BEEP!
7	Address reading operation (Operation No. 5) for a different unit can be performed			
8	In the case of failure in reading	AdErr	Err display	Beep, beep, beep, beep, beep
9	Reset the light emitting and receiving part, and press the SET button again to repeat the reading operation (Operation No. 5)			
10	- Clear the Err display - Button the mode to another mode Press the CLEAR button	Ad.150 Ex.)	Return to READ mode display	
11	When moving to the next setting, press the SELECT button to light up the display of the desired mode	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)		Beep

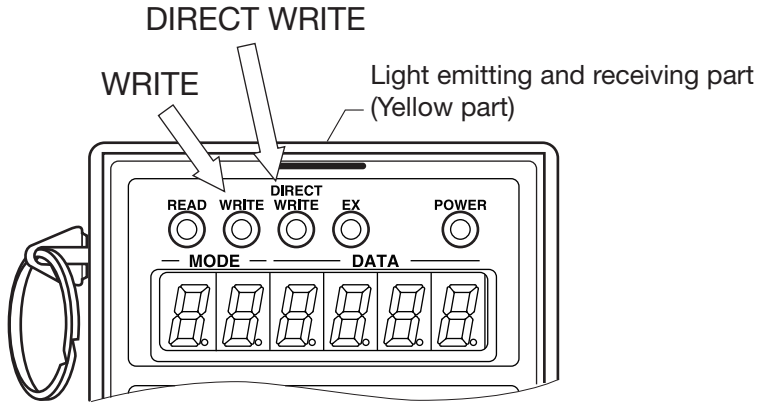
After using ARW-04, keep the POWER button pressed to turn OFF the power.



[Writing of address numbers]

There are two writing modes as follows.

Mode	Details
WRITE	When the power of the terminal and transmission signals are turned off after the writing operation and turned on again, the written values become available.
DIRECT WRITE	The written values become available at the time when addresses are written. *As addresses can be updated with the power on, this is an easy method. However, it requires careful attention to operation so that unexpected terminal movement may not cause an accident.



[Writing of address numbers…WRITE mode]

This is the mode to enable written values by turning on the power again.

Check that power (in the case of 2-wire type, transmission signal) is supplied to the target unit when operating. And after writing all the address numbers, confirm safety and reset the power (in the case of 2-wire type, transmission signal) of the target unit to update the result of writing.

■Address number writing operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-101	After the version is displayed	Beep, beep
		SELECt	SELECt flashes	
2	Press the SELECT button	-------	Flashing	Beep
3	Press the SELECT button several times to display WRITE	WRITE (yellow)		Beep
4	Press the SET button	Ad---0	The WRITE mode is determined	Beep
5	Press the SET button	Ad---0.	Flashing dots move to the right	Beep
6	Display the address number to be written by using the UP/DOWN buttons If the set value is 0, each time the R button is pressed, +50 is added. If the number exceeds 255 or 511 (initial setting), it returns to 0 If the set value is not 0, it returns to 0 when the R button is pressed	Ad150. Ex.)	When setting the address number to 150	
7	Point the light emitting and receiving part at the setting port of the target unit, and press the SET button	Ad°o°o	During the writing operation	Beep
8	In the case of success in writing	Good	After Good flashes	BEEP!
		Ad150. Ex.)	Example of a written address number	
9	Address reading operation (Operation Nos. 6 & 7) for a different unit can be performed			
10	In the case of failure in writing	Err	Err display	Beep, beep, beep, beep, beep
11	Reset the light emitting and receiving part, and press the SET button again to repeat the writing operation (Operation No. 7)			
12	- Clear the Err display - Button the mode to another mode Press the CLEAR button	Ad155. Ex.)	Return to WRITE mode display	Beep
13	Press the CLEAR button	Ad155 Ex.)	Flashing dots move to the left	Beep
14	When moving to the next setting, press the SELECT button to light up the display of the desired mode	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)		Beep

After using ARW-04, keep the POWER button pressed to turn OFF the power.

[Direct writing of address numbers…DIRECT WRITE Mode]

The values become available at the time when they are written.

Check that power (in the case of 2-wire type, transmission signal) is supplied to the target unit when operating.
In DIRECT WRITE mode, the values are updated at the time when they are written.
Please carry out the operation carefully because the address number response changes and it may result in unexpected movement.

■Address number writing operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-10	After the version is displayed	Beep, beep
		SELECt	SELECt flashes	
2	Press the SELECT button	------	Flashing	Beep
3	Press the SELECT button several times to display WRITE	DIRECT WRITE (orange)		Beep
4	Press the SET button	Ad_ _0	The DIRECT WRITE mode is determined	Beep
5	Press the SET button	Ad_ _0.	Flashing dots move to the right	Beep
6	Display the address number to be written by using the UP/DOWN buttons If the set value is 0, each time the R button is pressed, +50 is added. If the number exceeds 255 or 511 (initial setting), it returns to 0 If the set value is not 0, it returns to 0 when the R button is pressed	Ad 150. Ex.)	When setting the address number to 150	
7	Point the light emitting and receiving part at the setting port of the target unit, and press the SET button	Ad oo	During the writing operation	Beep
8	In the case of success in writing	Good	After Good flashes	BEEP!
		Ad 150. Ex.)	Example of a written value	
9	Address reading operation (Operation Nos. 6 & 7) for a different unit can be performed			Beep
10	In the case of failure in writing	Ad Err	Err display	Beep, beep, beep, beep, beep
11	Reset the light emitting and receiving part, and press the SET button again to repeat the writing operation (Operation No. 7)			
12	- Clear the Err display - Button the mode to another mode Press the CLEAR button	Ad 155. Ex.)	Return to DIRECT WRITE mode display	Beep
13	Press the CLEAR button	Ad_ _0	Flashing dots move to the left	Beep
14	When moving to the next setting, press the SELECT button to light up the display of the desired mode	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)		Beep

After using ARW-04, keep the POWER button pressed to turn OFF the power.

[Parameters]

Parameter consists of the movement element number built in a unit.

For a type of unit that has parameters, movement specifications are set using ARW-04.
For details on parameters, refer to the product guide of each unit.

⚠ CAUTION Do not operate the writer with a value that exceeds the following parameters or variable values. This may cause the writer to malfunction. If you try to set a value that exceeds the parameters and variable values, “E-303” is displayed in the display portion of ARW-04.

■Parameters of representative models

Type	Model	Parameter		
		Number	Variable and content	
Door type fall-proof	A027XB-F02G☐-P A227XB-F02G☐-P	01	1, 2, 3, 4, 5, 6, 7	Door upper position
		02	1, 2, 3, 4, 5, 6, 7	Door lower position
		03	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Timer
Small-sized fall-proof	A027XB-K02VN-P A027XB-K02V-P A227XB-K02VN-P A227XB-K02V-P	01	0 (green), 1 (red), 2 (blue), 3 (yellow), 4 (sky-blue), 5 (purple) and 6 (white)	Display colors
ASLINK POKAYOKE	BL227XB-K72V☐-P BL227XB-K72M☐-P BL227XB-K71V☐-P BL227XB-K71M☐-P BL227XB-K06M☐-P BL227XB-K02V☐-P	01	0 (green), 1 (red), 2 (blue), 3 (yellow), 4 (sky-blue), 5 (purple) and 6 (white)	Display colors
		02	0 (Not displayed/blank), 1 (Displayed) 2 (-/ hyphen), 3 (-1/minus 1)	How to display “F” on 7-segment display
		03	80 (Not displayed/blank), 81 (Displayed) 82 (-/ hyphen), 83 (-1/minus 1)	How to display “A” on 7-segment display

■Parameters of representative models

Type	Model	Parameter		
		Number	Variable and content	
ASLINKER	B280SB-02U□-C1220 B280PB-02U□-C1220	01	0 (I/O disconnection, 24VL short-circuit detection: OFF) 1 (I/O disconnection, 24VL short-circuit detection: ON) Factory setting: 0	Function Selection
	B281□B-02U□-CC20	01	0 (I/O disconnection, 24VL short-circuit detection: OFF) 1 (I/O disconnection, 24VL short-circuit detection: ON) Factory setting: 0	Function Selection
ASLINKAMP	B289SB-01AF-CAM20-V B289SB-01AF-CAS-V B289SB-01AP-CAM20 B289SB-01AP-CAS	01	Setting of sensor sensitivity (threshold) Adjustment range: 0 – 100 Factory setting: 50	Function Selection
		02	Hysteresis setting for sensor sensitivity Adjustment range: 0 – 100 Factory setting: 5	Function Selection
		03	Setting of upper limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 80	Function Selection
		04	Setting of lower limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 20	Function Selection
		05	Setting of monitoring time in alarm judgment value Adjustment range: 3 – 255 Factory setting: 50 (Unit: 0.1 sec)	Function Selection
		06	Switching of Dark ON and Light ON Factory setting: 0 Transmission-type: 0: Dark (shielding) ON; 1: Light (Transmission) ON Reflection-type: 2: Dark (without reflection) ON; 3: Light (with reflection) ON	Function Selection
		07	Setting of operating mode Factory setting: 0 0 (Diagnosis function: OFF) 1 (Diagnosis function: ON) *ASLINKAMP-side display interlock	Function Selection
		08	Internal setting for photoelectric head Variable: 0-3 Factory setting: 0 *This value is used for setting Factory setting. If changing this value, consult our Sales Division.	Function Selection

■Parameters of representative models

Type	Model	Parameter		
		Number	Variable and content	
AnyWireASLINK Mapping terminal	B232SB-MX100-STP B232SB-SX100-STP	01	0, 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 Factory setting: 10	Sensitivity
		02	0 (Collective setting of sensitivity), 1 (Individual setting of sensitivity) Factory setting: 0	Sensitivity setting mode of B232SB-SX100-STP
		03	0 (with error sensor unit monitoring function) 1 (without error sensor unit monitoring function) Factory setting: 0	Error sensor unit monitoring function
ASLINKSENSOR	B283SB-01-1KC	01	Setting of sensor sensitivity (threshold) Adjustment range: 0 – 100 Factory setting: 50	Function Selection
		02	Hysteresis setting for sensor sensitivity Adjustment range: 0 – 100 Factory setting: 5	Function Selection
		03	Setting of upper limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 80	Function Selection
		04	Setting of lower limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 20	Function Selection
		05	Setting of monitoring time in alarm judgment value Adjustment range: 3 – 255 Factory setting: 50 (Unit: 0.1 sec)	Function Selection
		06	Switching of Dark ON and Light ON Factory setting: 0 0: Dark (shielding) ON 1: Light (Transmission) ON	Function Selection
		07	Setting of operating mode Factory setting: 0 0 (Diagnosis function: OFF) 1 (Diagnosis function: ON) *ASLINKSENSOR-side display interlock	Function Selection
		08	Light receiving mode setting Factory setting: 1 0 (Normal mode) 1 (Fine mode)	Function Selection
	B283SB-01-1KP	09	Light emitting mode setting Factory setting: 0 0 (Normal mode) 1 (Power mode)	Function Selection

■Parameters of representative models

Type	Model	Parameter		
		Number	Variable and content	
ASLINKSENSOR	B283SB-01-1KR-V B283SB-01-1KS	01	Setting of sensor sensitivity (threshold) Adjustment range: 0 – 100 Factory setting: 50	Function Selection
		02	Hysteresis setting for sensor sensitivity Adjustment range: 0 – 100 Factory setting: 5	Function Selection
		03	Setting of upper limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 80	Function Selection
		04	Setting of lower limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 20	Function Selection
		05	Setting of monitoring time in alarm judgment value Adjustment range: 3 – 255 Factory setting: 50 (Unit: 0.1 sec)	Function Selection
		06	Switching of Dark ON and Light ON 0: Dark (without reflection) ON 1: Light (with reflection) ON Factory setting 0: B283SB-01-1KR-V 1: B283SB-01-1KS	Function Selection
		07	Setting of operating mode Factory setting: 0 0 (Diagnosis function: OFF) 1 (Diagnosis function: ON) *ASLINKSENSOR-side display interlock	Function Selection
		08	Light receiving mode setting Factory setting: 1 0 (Normal mode) 1 (Fine mode)	Function Selection
		09	Light emitting mode setting Factory setting: 1 0 (Normal mode) 1 (Power mode)	Function Selection
	BS-K1117-M□□-1K BS-K1117S-M□□-1K	01	Setting of sensor sensitivity (threshold) Adjustment range: 0 – 100 Factory setting: 50	Function Selection
		02	Hysteresis setting for sensor sensitivity Adjustment range: 0 – 100 Factory setting: 5	Function Selection
		03	Setting of upper limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 80	Function Selection
		04	Setting of lower limit of alarm judgment value Adjustment range: 0 – 100 Factory setting: 20	Function Selection
		05	Setting of monitoring time in alarm judgment value Adjustment range: 3 – 255 Factory setting: 50 (Unit: 0.1 sec)	Function Selection
		06	Normally open / Normally closed 0: Normally open Factory setting: 0 1: Normally closed	Function Selection
		07	Setting of operating mode Factory setting: 0 0 (Diagnosis function: OFF) 1 (Diagnosis function: ON) *ASLINKSENSOR-side display interlock	Function Selection
		10	Delay timer ON/OFF Factory setting: 0 0: No delay timer 2: OFF delay timer 1: ON delay timer 3: ON/OFF delay timer	Function Selection
		11	Delay timer value Factory setting: 0 Adjustment range: 0 – 255 (Unit: 10 ms)	Function Selection

[Reading of parameters…READ mode]

This is the mode to read parameter numbers and variables written in a unit.

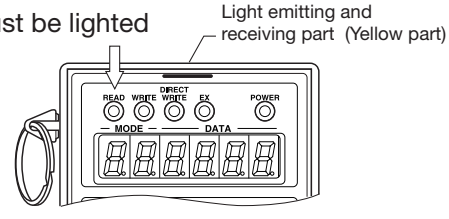
Check that power (in the case of 2-wire type, transmission signal) is supplied to the target unit.

■Parameter reading operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-101	After the version is displayed	Beep, beep
		SELECt	SELECt flashes	
2	Press the SELECT button	------	Flashing	Beep
3	Press the SELECT button several times to display READ	READ (green)		Beep
4	Press the SET button	Ad.----	The READ mode is determined	Beep
5	Select the parameter to be read by using the UP/DOWN button	01.---- Ex.)	When selecting parameter 1	
6	Point the light emitting and receiving part at the unit, and press the SET button	01.----	Reading	Beep
7	In the case of success in reading	01.--50 Ex.)	Example of a read parameter	BEEP!
8	Address reading operation (Operation Nos. 5 & 6) for a different unit can be performed			
9	In the case of failure in reading	01.Err	Err display	Beep, beep, beep, beep, beep
10	Reset the light emitting and receiving part, and press the SET button again to repeat the reading operation (Operation No. 6)			
11	- Clear the Err display - Button the mode to another mode Press the CLEAR button	01.--50 Ex.)	Return to READ mode display	
12	When moving to the next setting, press the SELECT button to light up the display of the desired mode	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)		Beep

After using ARW-04, keep the POWER button pressed to turn OFF the power.

READ must be lighted



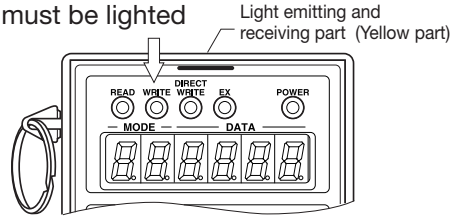
[Writing of parameters…WRITE mode]

This is the mode to enable written values by turning on the power again.

Check that power (in the case of 2-wire type, transmission signal) is supplied to the target unit when operating. And after writing all the address numbers, confirm safety and reset the power (in the case of 2-wire type, transmission signal) of the target unit to update the result of writing.

■Parameter writing operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-01	After the version is displayed	Beep, beep
		SELECt	SELECt flashes	
2	Press the SELECT button	------	Flashing	Beep
3	Press the SELECT button several times to display WRITE	WRITE (yellow)		Beep
4	Press the SET button	Ad.--0	The WRITE mode is determined	Beep
5	Select the parameter number to be written using the UP/DOWN button	01.--0 Ex.)	When selecting parameter 1	Beep
6	Press the SET button	01.--0. Ex.)	Flashing dots move to the right	Beep
7	Set the parameter value to be written using the UP/DOWN button	01----1. Ex.)	When selecting variable “1” in parameter 1	Beep
8	Point the light emitting and receiving part at the setting port of the target unit, and press the SET button	01-0-0	During the writing operation	
9	In the case of success in writing	Good	After Good flashes	BEEP!
		01----1. Ex.)	Example of a written value	
10	Address reading operation (Operation Nos. 7 & 8) for a different unit can be performed (If returning by the CLEAR button, the parameter number can be changed (Operation Nos. 5 & 6 are available))			
11	In the case of failure in writing	01.Err	Err display	Beep, beep, beep, beep, beep
12	Reset the light emitting and receiving part, and press the SET button again to repeat the writing operation (Operation No. 8)			
13	- Clear the Err display - Button the mode to another mode Press the CLEAR button	01----1. Ex.)	Return to DIRECT WRITE mode display	Beep
14	Press the CLEAR button	01.--0	Flashing dots move to the left	Beep
15	When moving to the next setting, press the SELECT button to light up the display of the desired mode	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)	WRITE must be lighted	



After using ARW-04, keep the POWER button pressed to turn OFF the power.

[Direct writing of parameters…DIRECT WRITE mode]

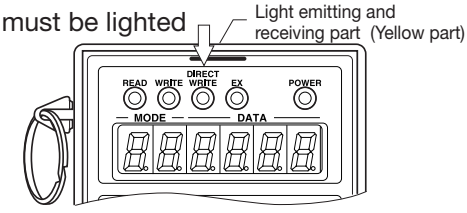
The values become available at the time when they are written.

Check that power (in the case of 2-wire type, transmission signal) is supplied to the target unit when operating.
In DIRECT WRITE mode, the values are updated at the time when they are written.
Please carry out the operation carefully because the movement changes and it may result in unexpected movement.

■Parameter direct writing operation

	How to operate	Display	Content of display	Set sound
1	Hold down the POWER button	04-101	After the version is displayed	Beep, beep
		SELECt	SELECt flashes	
2	Press the SELECT button	------	Flashing	Beep
3	Press the SELECT button several times to display DIRECT WRITE	DIRECT WRITE (orange)		Beep
4	Press the SET button	Ad.---0	The DIRECT WRITE mode is determined	Beep
5	Select the parameter number to be written using the UP/DOWN button	01.---0 Ex.)	When selecting parameter 1	
6	Press the SET button	01.---0. Ex.)	Flashing dots move to the right	Beep
7	Set the parameter value to be written using the UP/DOWN button	01----1. Ex.)	When selecting variable “1” in parameter 1	Beep
8	Point the light emitting and receiving part at the setting port of the target unit, and press the SET button	01.oooo	During the writing operation	
9	In the case of success in writing	Good	After Good flashes	BEEP!
		01----1. Ex.)	Example of a written value	
10	Address reading operation (Operation Nos. 7 & 8) for a different unit can be performed (If returning by the CLEAR button, the parameter number can be changed (Operation Nos. 5 & 6 are available))			
11	In the case of failure in writing	01.Err	Err display	Beep, beep, beep, beep, beep
12	Reset the light emitting and receiving part, and press the SET button again to repeat the writing operation (Operation No. 8)			
13	- Clear the Err display - Button the mode to another mode Press the CLEAR button	01.----1. Ex.)	Return to DIRECT WRITE mode display	Beep
14	Press the CLEAR button	01.---0	Flashing dots move to the left	Beep
15	When moving to the next setting, press the SELECT button to light up the display of the desired mode	READ (green) WRITE (yellow) DIRECT WRITE (orange) EX (red)		

DIRECT WRITE must be lighted



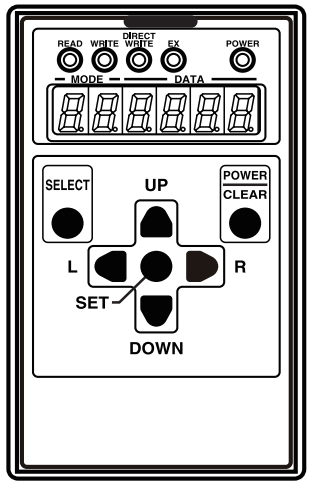
After using ARW-04, keep the POWER button pressed to turn OFF the power.

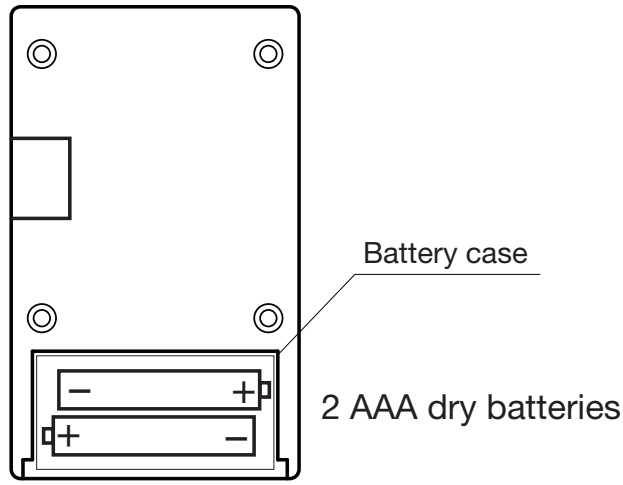
[Battery replacement]

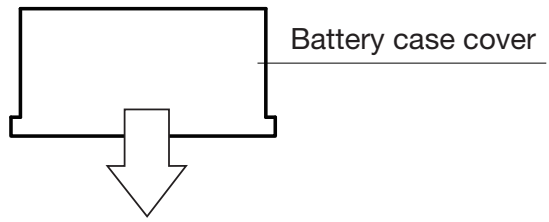
If the POWER indicator lamp flashes, the battery is almost dead. Please replace it with new one.

■Battery replacement

	Condition	Display	Meaning
1	POWER button ON	POWER indicator lamp flashes CHAnGE	Batter is almost dead.
2	POWER button OFF		Battery replacement







Please pull the cover in the arrow direction.

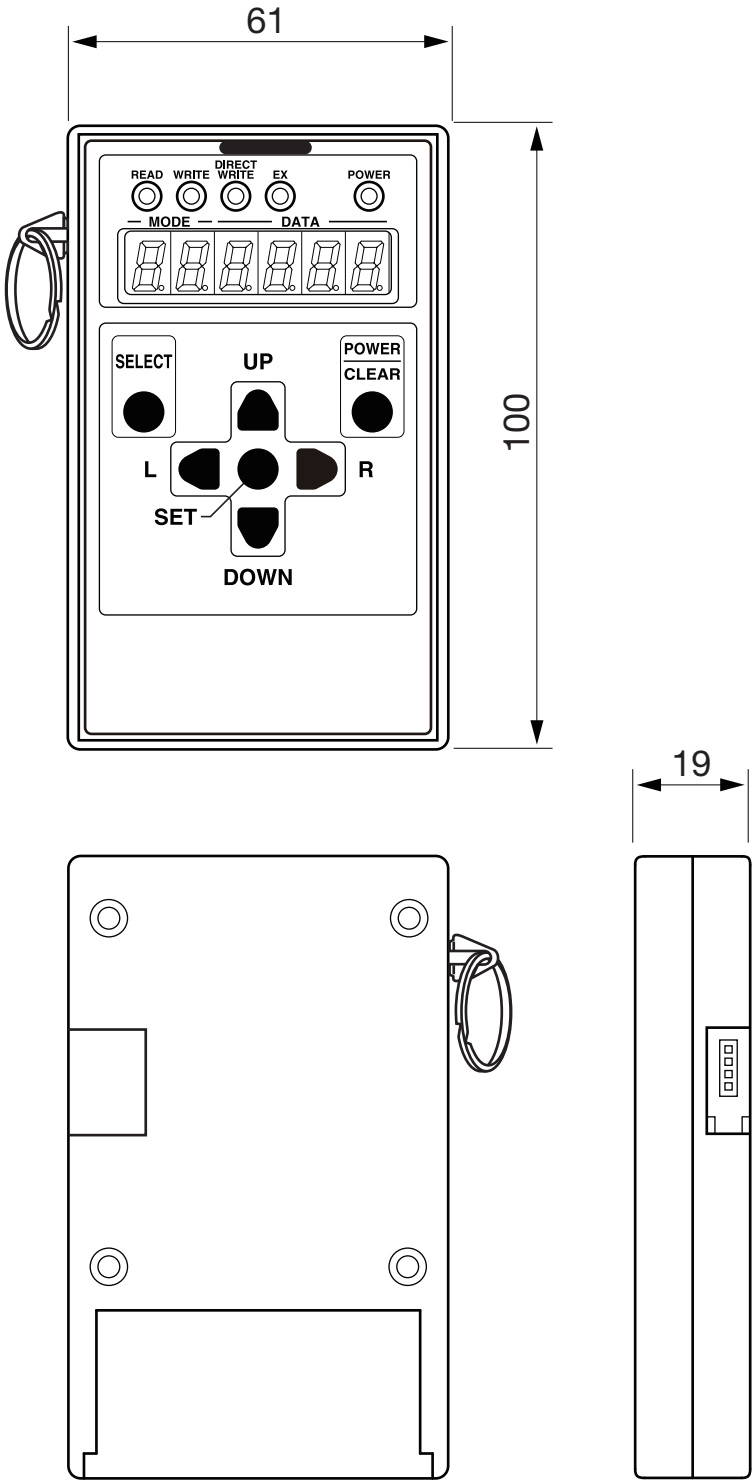
CAUTION

Put batteries in the correct directions (+ and -). If not put in the correct directions, it may cause a failure, breakage, etc.
Properly dispose of used batteries in accordance with the regulations of each local government.

*Dry batteries are separately packed to be attached to the writer.
The attached batteries are monitor batteries for operation check.
Therefore, the batteries may run down sooner than commercially available batteries.
In such cases, purchase 2 “AAA dry batteries” separately.

[Outer dimensions]

Unit: mm



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部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 [Cr (VI)]	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
安装基板	×	○	○	○	○	○
框架	○	○	○	○	○	○

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