

# KDM30 Instruction Manual

For Battery / External Power Supply / RS232C

ver 3.6.1



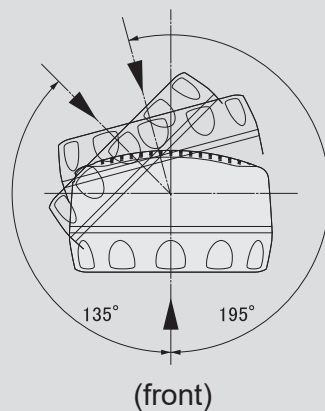
## ! CAUTION

Please use spanner / wrench when install / remove KDM30.  
Installing / removing KDM30 by screwing KDM30 body causes product break.

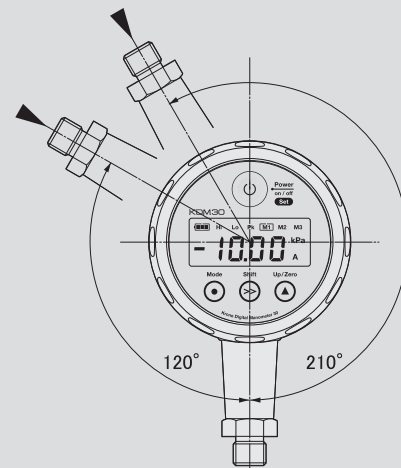


### Flexible Display

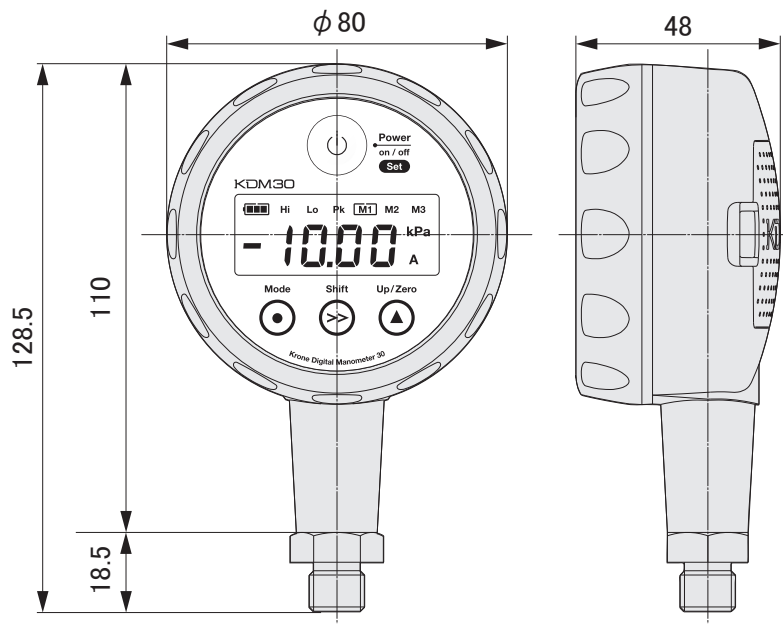
Neck rotation angle: Max 330°



Display rotation angle: Max 330°



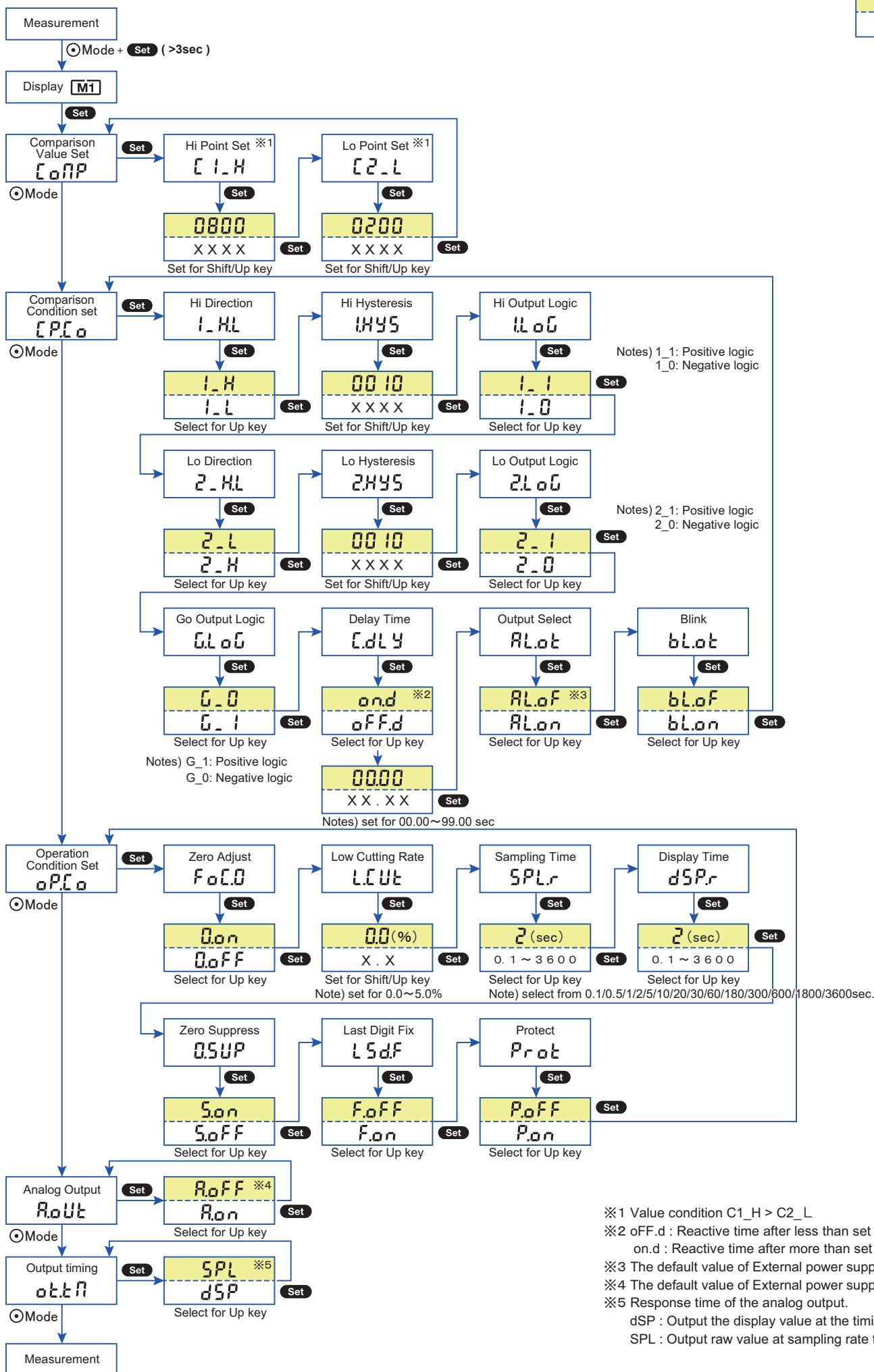
## ■ Explanation of the operation Button & Monitor



Item	Function	How to operate
<b>Power / Set</b>	Power ON/OFF	ON : Press the <b>Power/Set</b> button . OFF : Press the <b>Power/Set</b> button( $\geq 3$ sec) .
	Backlight ON/OFF	Press the <b>Power/Set</b> button , and the backlight is turned on . Press the <b>Power/Set</b> button again , and the backlight is turned off .
	Mode change	Press the <b>Power/Set</b> button , and you can switch to the another mode .
<b>Mode</b>	Calling up the setting <b>M1</b> and <b>M2</b>	<b>M1</b> : Press the <b>Mode</b> and <b>Set</b> button simultaneously <b>M2</b> : Press the <b>Shift</b> button during the mode <b>M1</b>
<b>Shift</b>	Monitor display/output of the pressure value	Press the <b>Shift</b> button shortly during the normal measurement , the instantaneous value of the pressure is displayed and output (recorded on the monitor software side) .
	Changing the digit of the setting value	In case that you want to change the digits of the setting value , press the <b>Shift</b> button .
<b>Up</b>	Selection of the setting item	In case that you choose one of the two , press the <b>Up</b> button .
	Changing of the setting value	Press the <b>Up</b> button in case of changing of the setting value , and you can change the setting value .
<b>Zero</b>	Zero-point correction	Performed electronically by pressing the <b>zero</b> button
	Clearing of peak/valley values	Press the <b>Zero</b> button shortly , and the peak/valley value data recorded is clear .
	Battery remaining amount display	Battery is not needed to replace . Battery is needed to prepare the replacement battery . Battery should be replaced immediately . (caution) • If the battery run out of power , the data of the peak/valley value is not recorded . • The battery recommended replacement time(Battery model : 006P alkali battery) ex) Sampling time : 2 sec • • • for about 3 months Sampling time : 0.1sec • • • for about 1-2 days
	Insufficient supply voltage display	<b>bAtL</b> is displayed when the supply voltage is shortage .
<b>Hi</b>	Comparing to the level of measurement values (High)	When the measurement value is higher than the setting value " <b>Hi</b> " , the digital display flush " <b>Hi</b> " .
<b>Lo</b>	Comparing to the level of measurement values (Low)	When the measurement value is lower than the setting value " <b>Lo</b> " , the digital display flush " <b>Lo</b> " .
<b>Pk</b>	Peak / Valley display	When the peak or valley value is set , <b>Pk</b> is displayed .
<b>M1</b>	Mode 1	Mode 1 function (see the Page 3 "Mode 1 Parameter table")
<b>M2</b>	Mode 2	Mode 2 function (see the Page 4 "Mode 2 Parameter table")

### Mode1 Parameter table

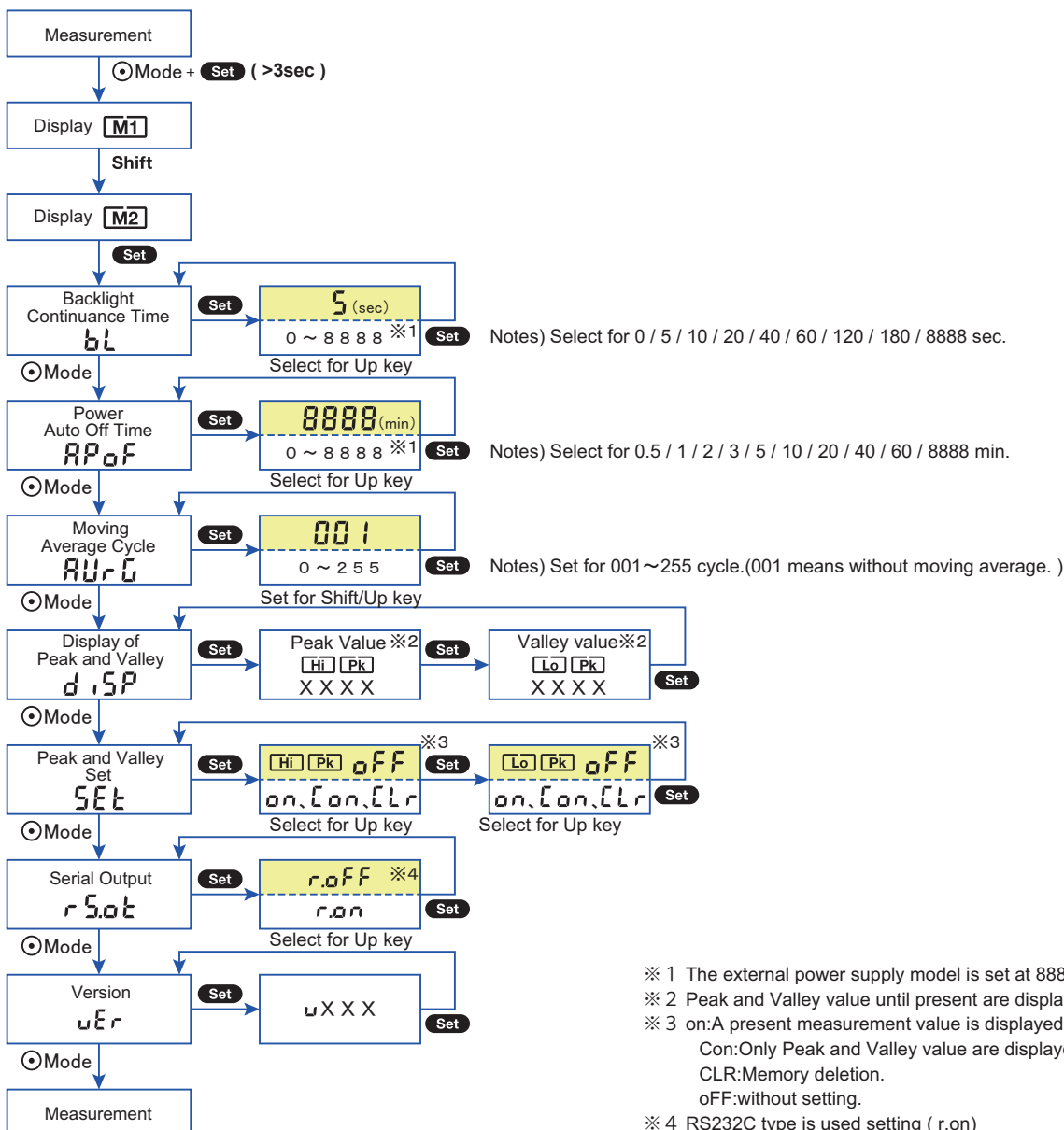
Default value
Change value



※1 Value condition C1\_H > C2\_L  
 ※2 oFF.d : Reactive time after less than set value.  
 on.d : Reactive time after more than set value.  
 ※3 The default value of External power supply type is "AL. on".  
 ※4 The default value of External power supply type is "A. on".  
 ※5 Response time of the analog output.  
 dSP : Output the display value at the timing of the display rate  
 SPL : Output raw value at sampling rate timing

## ■ Mode2 Parameter table

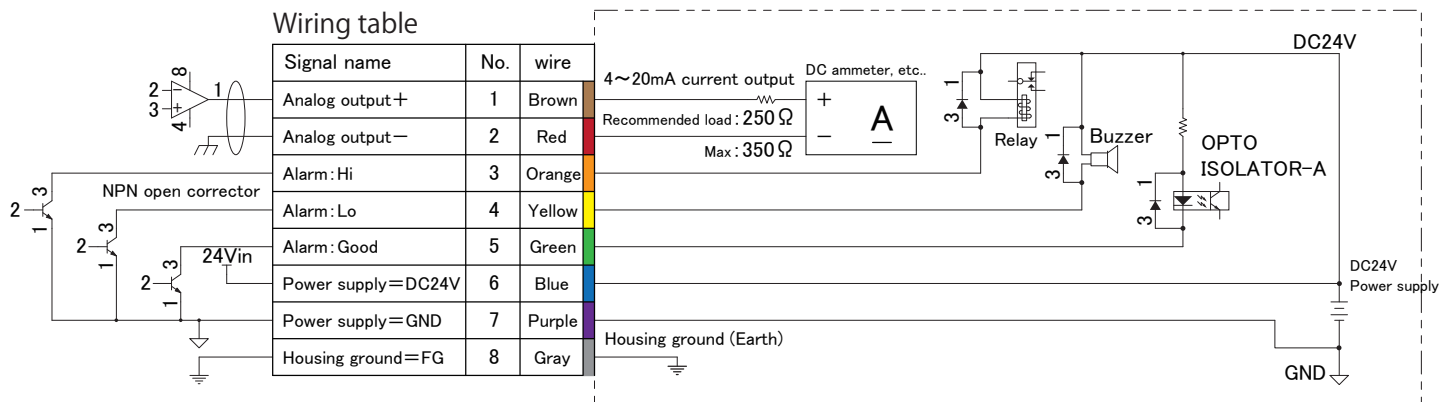
Default value
Change value



## ■ Input / output connection example (External 24VDC power supply)

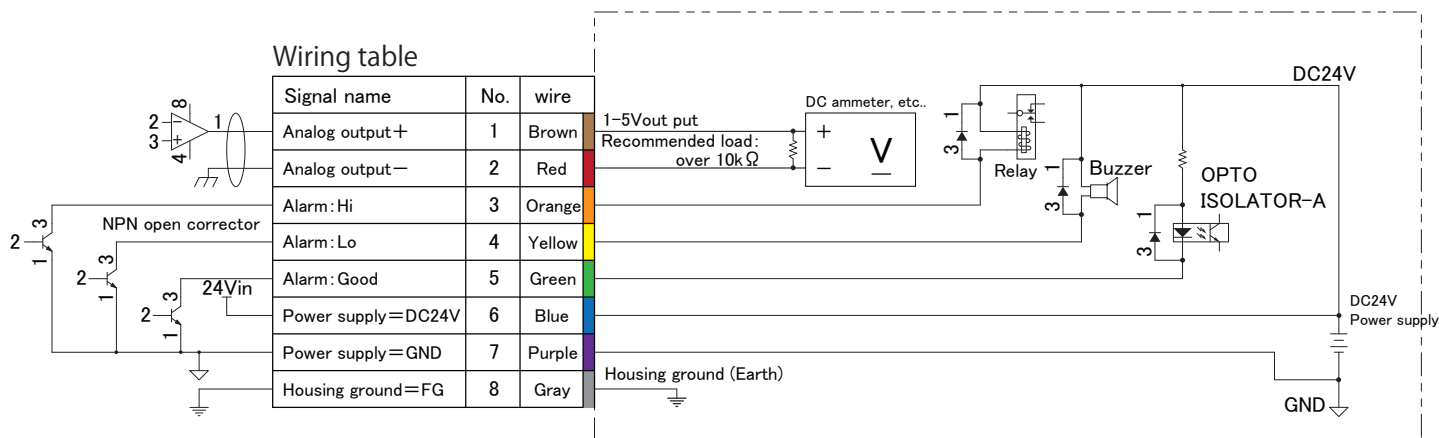
- 4-20mA current output

### ▼ User side connection example



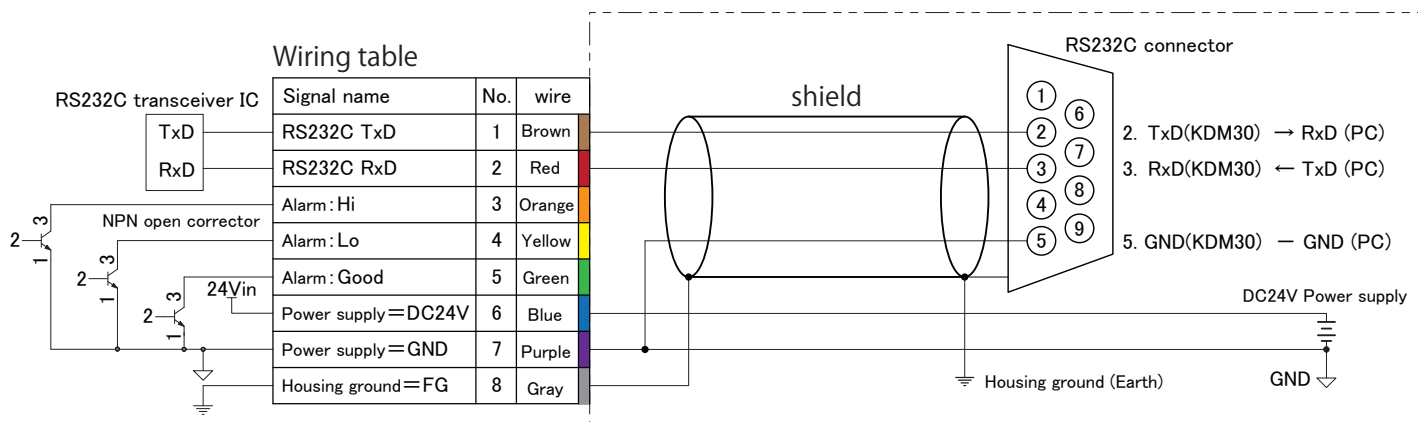
- 1-5VDC voltage output

### ▼ User side connection example



- RS232C output

### ▼ User side connection example

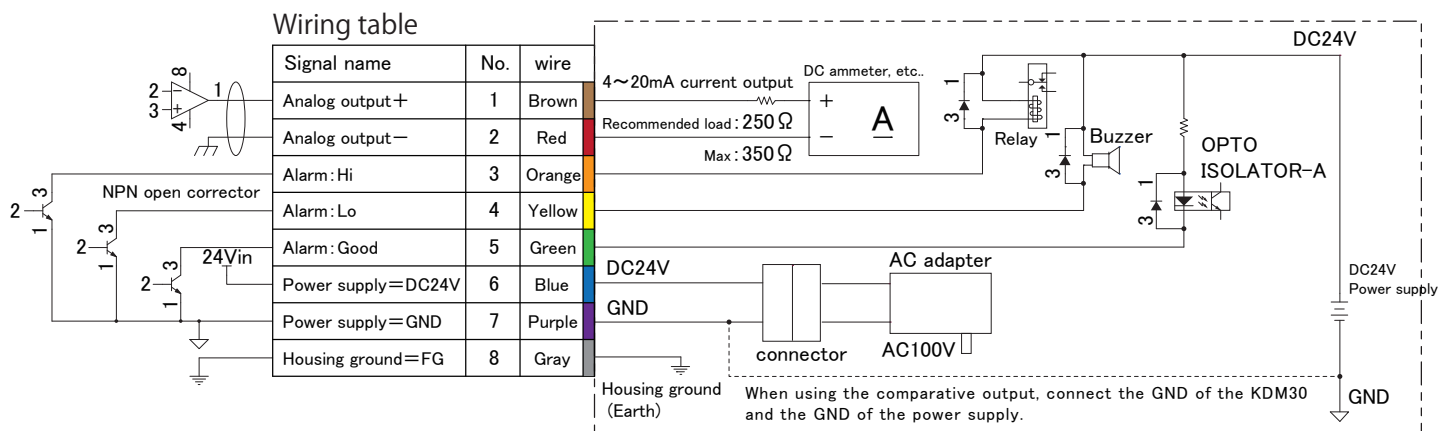


## ■ Input / output connection example (External AC100V adapter power supply)

**!** Please make a ground (Earth) connection when using the AC100V power adapter.  
When using the power adapter AC100V, If the displayed value fluctuates or deviates from the accuracy, Pin 8 connect to ground (Earth).

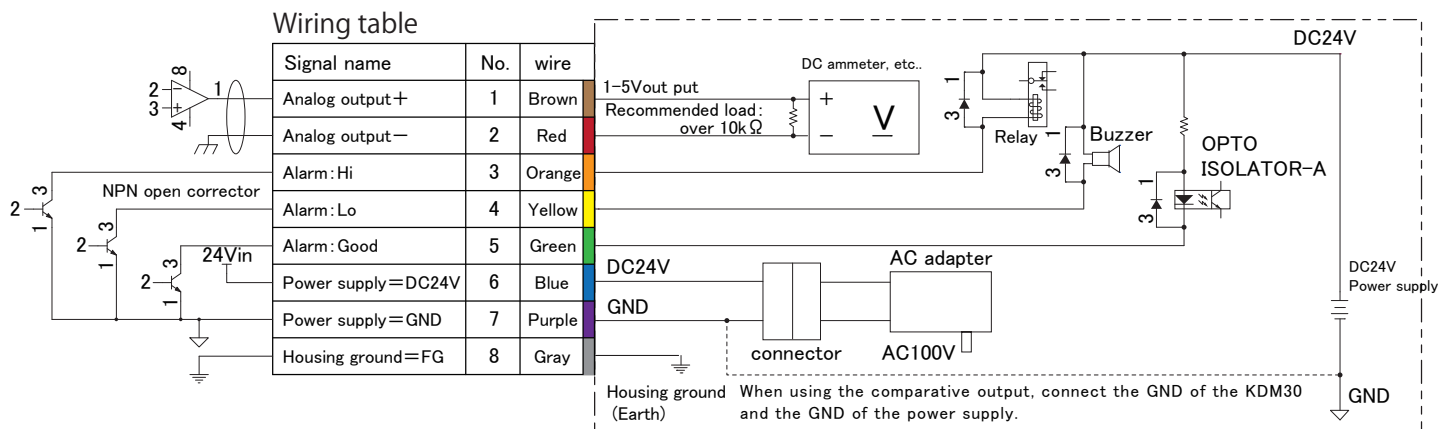
• 4-20mA current output

### ▼ User side connection example



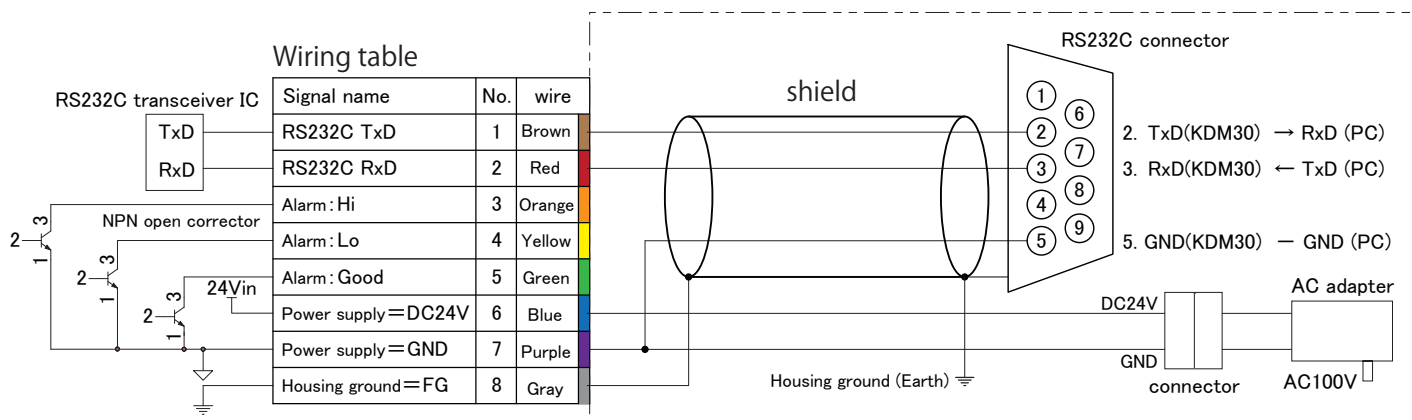
• 1-5VDC voltage output

### ▼ User side connection example



• RS232C output

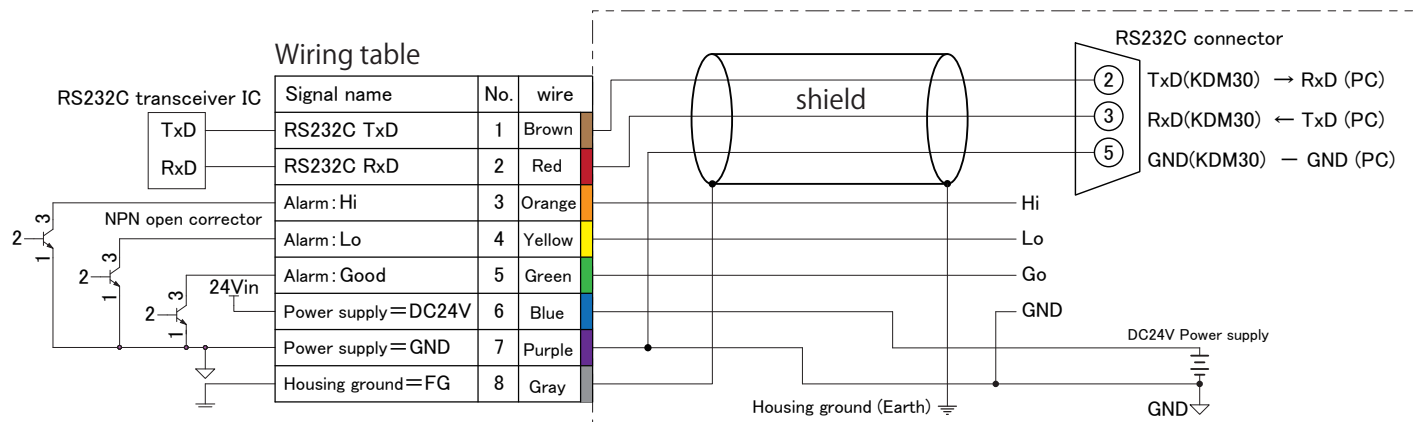
### ▼ User side connection example



## ■ Input / output connection example (Hi / Go / Lo Comparative output)

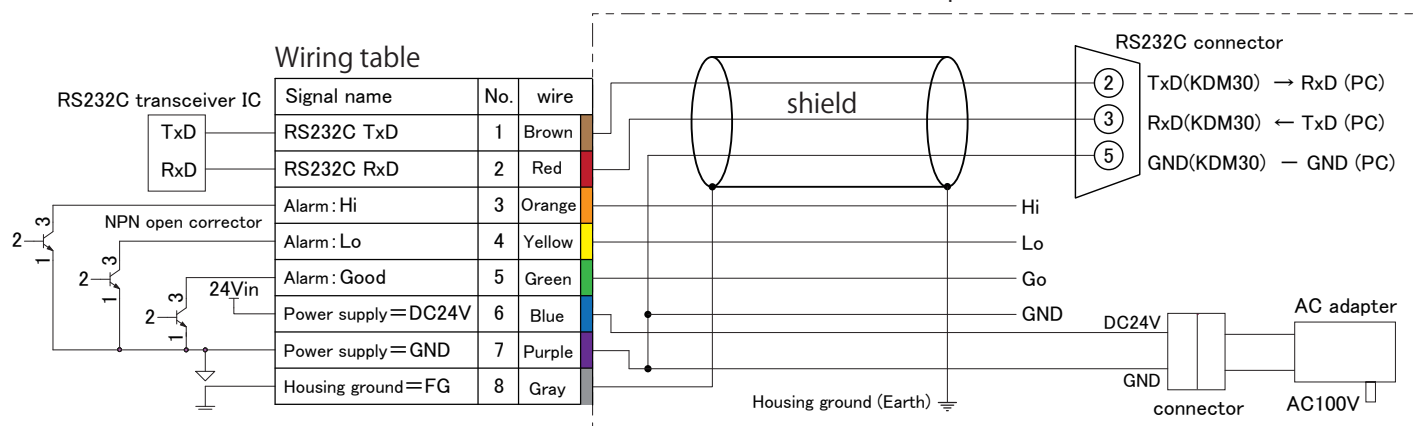
- External 24VDC power supply / RS232C output

### ▼ User side connection example



- External AC100V power supply / RS232C output

### ▼ User side connection example



\*The design and specifications are subject to change  
without prior notice for product improvement.



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