

KDM30 Instruction Manual

For Battery / External Power Supply / RS232C



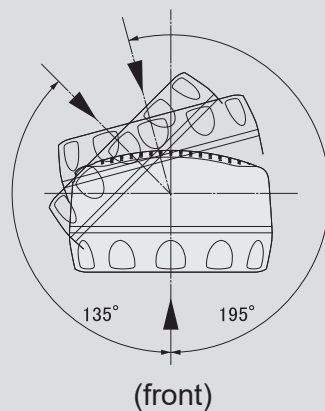
! CAUTION

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

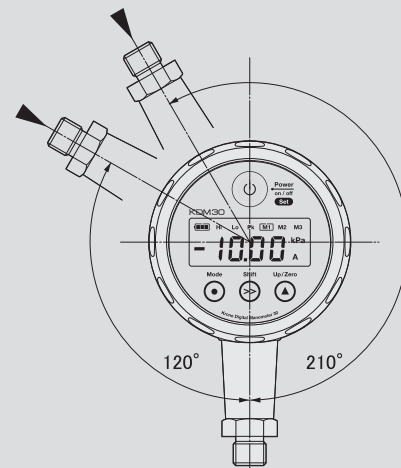


Flexible Display

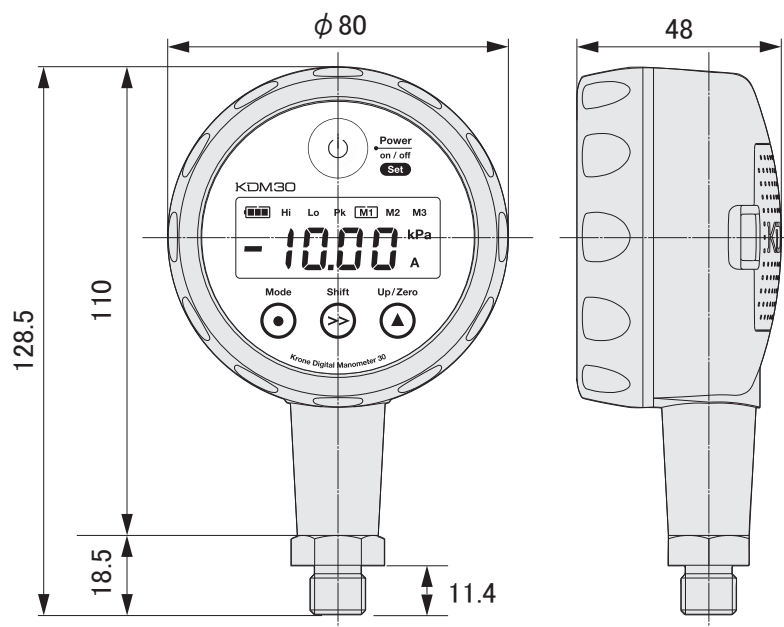
Neck rotation angle: Max 330°



Display rotation angle: Max 330°



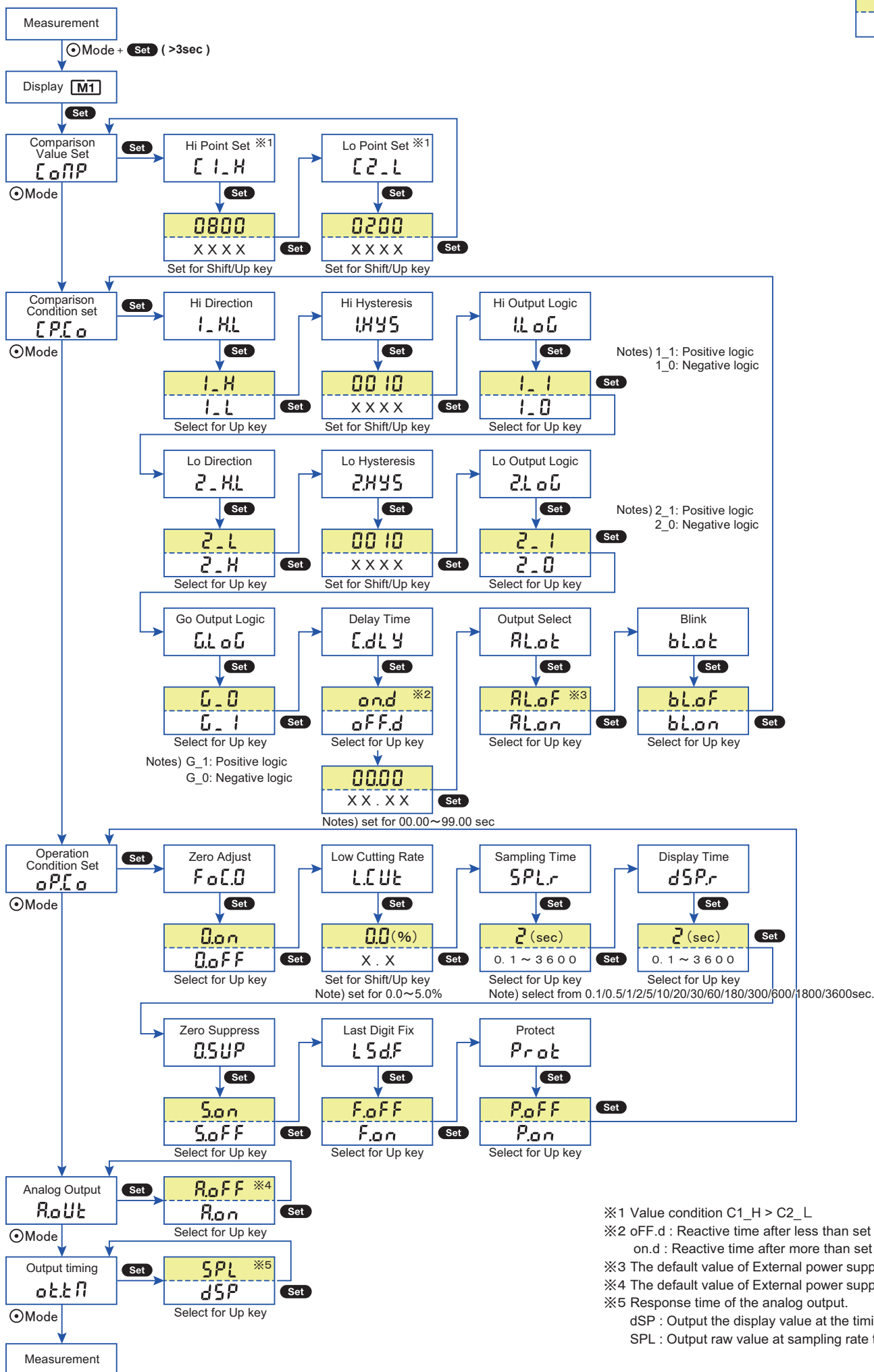
■ Explanation of the operation Button & Monitor



Item	Function	How to operate
Power / Set	Power ON/OFF	ON : Press the Power/Set button . OFF : Press the Power/Set button(≥ 3 sec) .
	Backlight ON/OFF	Press the Power/Set button , and the backlight is turned on . Press the Power/Set button again , and the backlight is turned off .
	Mode change	Press the Power/Set button , and you can switch to the another mode .
Mode	Calling up the setting M1 and M2	M1 : Press the Mode and Set button simultaneously M2 : Press the Shift button during the mode M1
Shift	Monitor display/output of the pressure value	Press the Shift 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 Shift button .
Up	Selection of the setting item	In case that you choose one of the two , press the Up button .
	Changing of the setting value	Press the Up button in case of changing of the setting value , and you can change the setting value .
Zero	Zero-point correction	Performed electronically by pressing the zero button
	Clearing of peak/valley values	Press the Zero 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	BAT.L is displayed when the supply voltage is shortage .
	Comparing to the level of measurement values (High)	When the measurement value is higher than the setting value " Hi " , the digital display flush " Hi " .
	Comparing to the level of measurement values (Low)	When the measurement value is lower than the setting value " Lo " , the digital display flush " Lo " .
	Peak / Valley display	When the peak or valley value is set , Pk is displayed .
	Mode 1	Mode 1 function (see the Page 3 "Mode 1 Parameter table")
	Mode 2	Mode 2 function (see the Page 4 "Mode 2 Parameter table")

Mode1 Parameter table

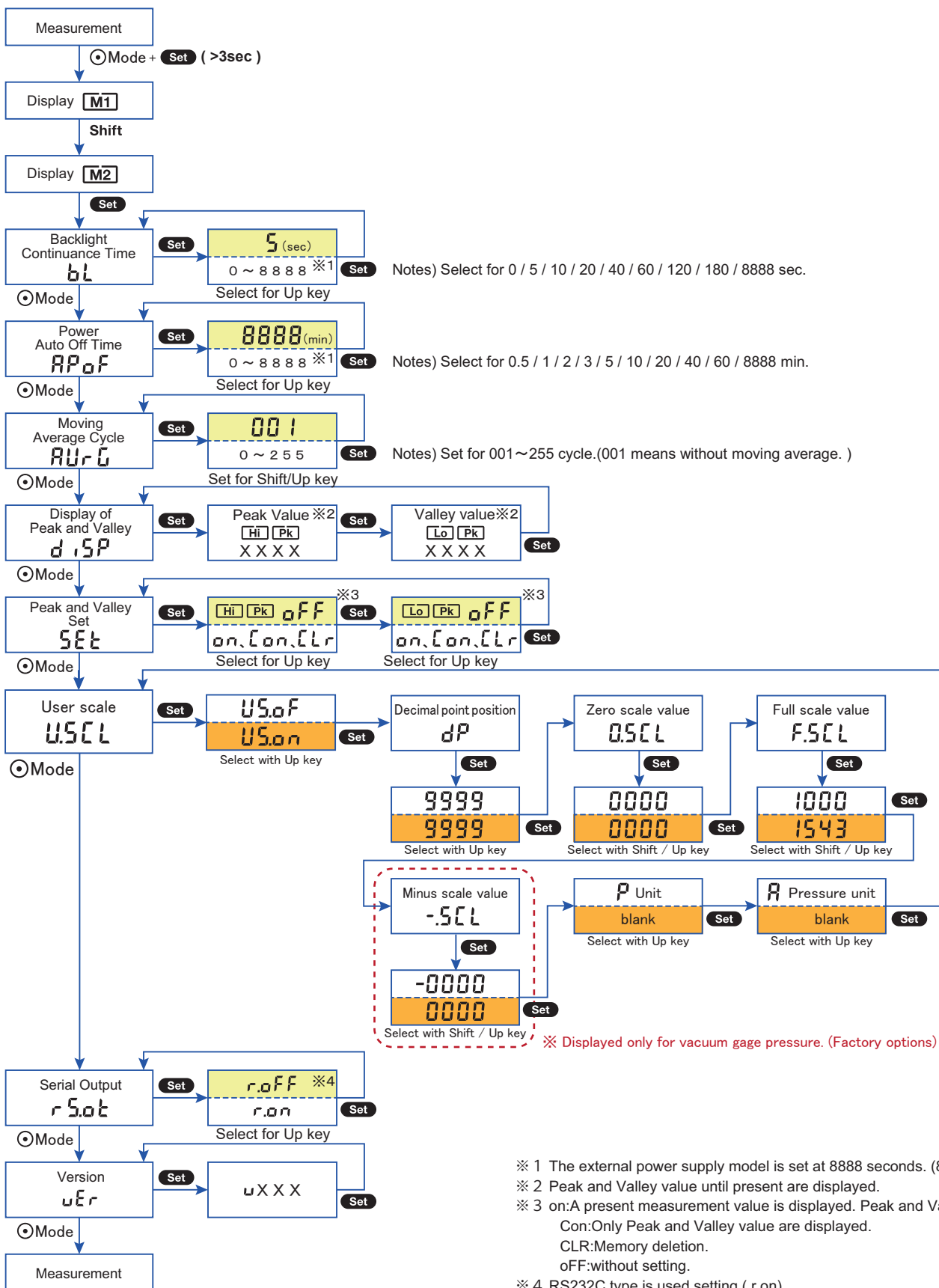
Default value
Change value



※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



■ User scale setting procedure

(1) If you want to use the user scale, set to and proceed to the scale setting.

If you do not use the user scale, it will automatically return to the factory scaling.

(2) Setting the decimal point position ... Set the decimal point to the required position.

(3) Zero scale setting ... Enter the value you want to display when the minimum value of the pressure gauge is reached.

(4) Full scale setting ... Enter the value you want to display when the maximum value of the pressure gauge is reached.

(5) Negative scale setting ... Enter the value you want to display when the maximum negative value of the pressure gauge is reached.

* Displayed only when coupled pressure is applied.

* If not applicable, enter 0000 or the same value as the zero scale value.

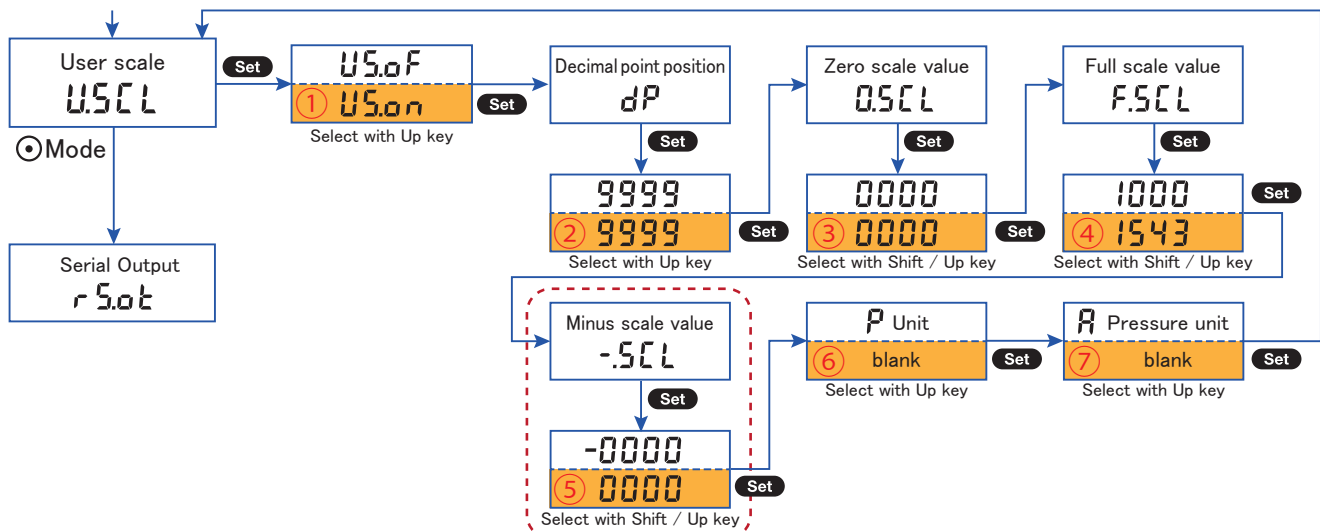
⑥ Unit selection... Select a unit. Select blank (none) if you do not want to display it.

⑦ Select the pressure type. (G: gauge pressure, A: absolute pressure) Select blank (none) if not displayed.

Example) When scaling to 0-1543 (kN) for a gauge pressure of 0-10 (MPa), set as follows.

* Since the unit kN is not in the menu, set a blank (none) for the unit and attach a sticker such as Tepla to the LCD separately.

[Pressure value]	[Conversion value]
10.00MPa	⇒ 1543kN
0MPa	⇒ 0kN

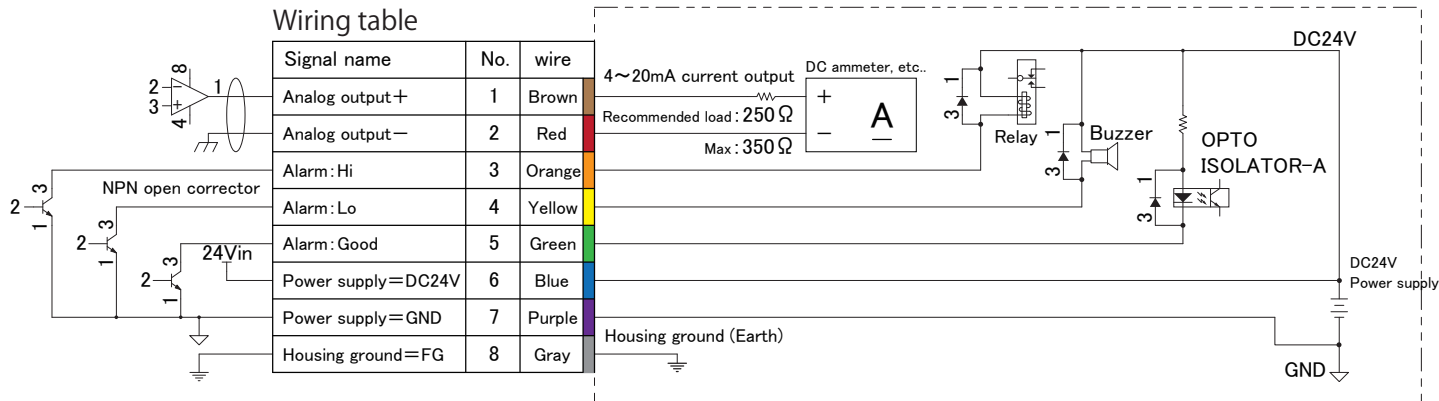


※ Displayed only for vacuum gage pressure. (Factory options)

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

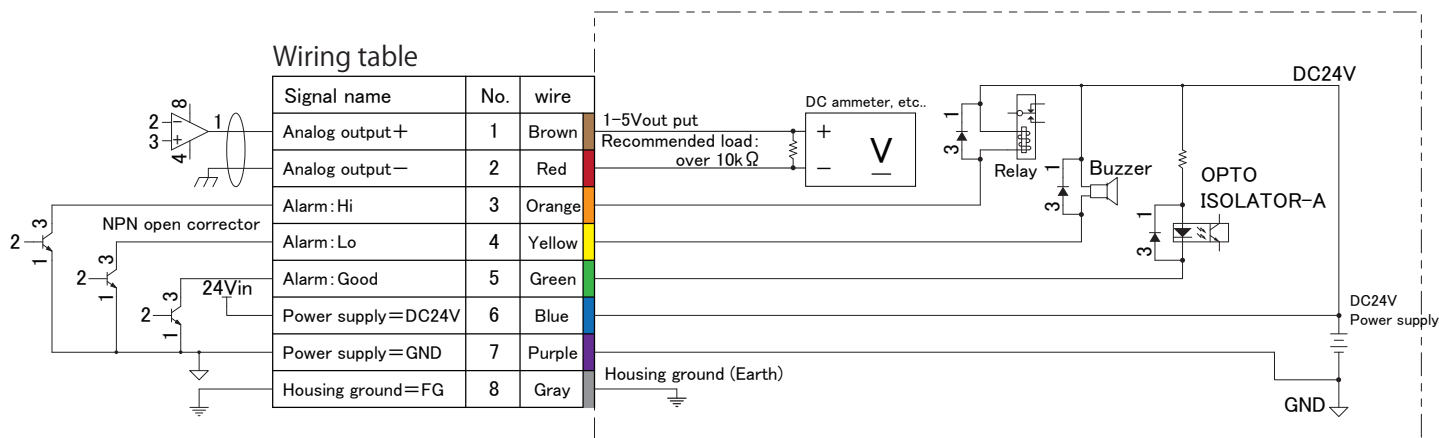
- 4-20mA current output

▼ User side connection example



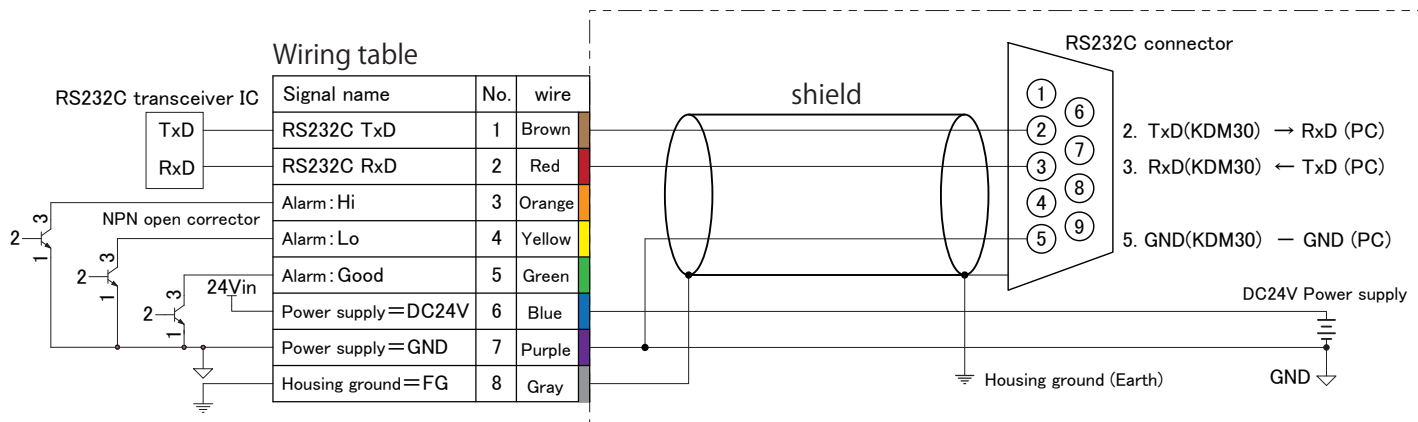
- 1-5VDC voltage output

▼ User side connection example



- RS232C output

▼ User side connection example

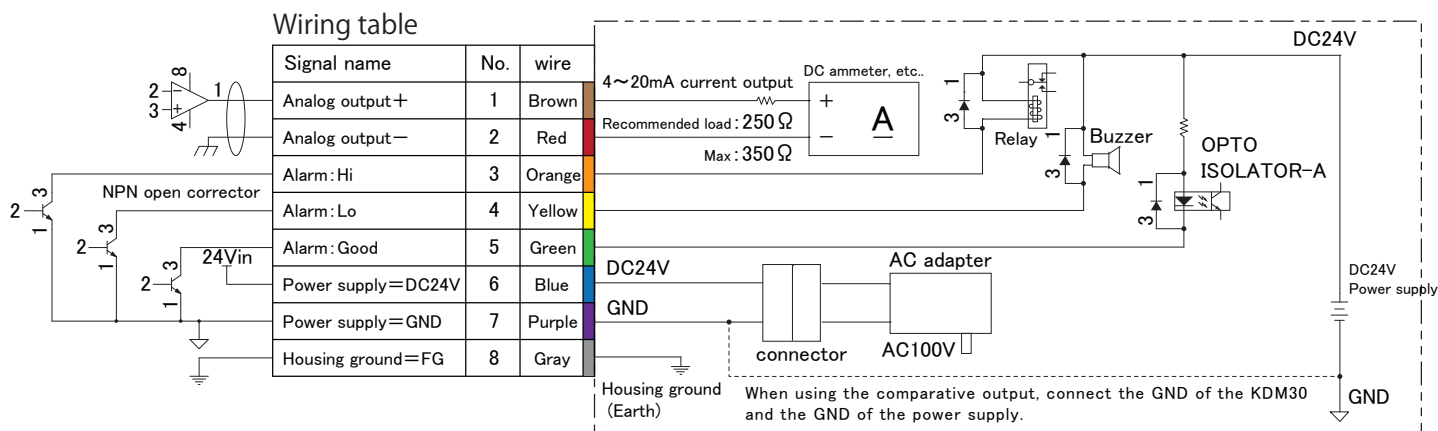


■ Input / output connection example (External AC100V adapter power supply)

! 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).

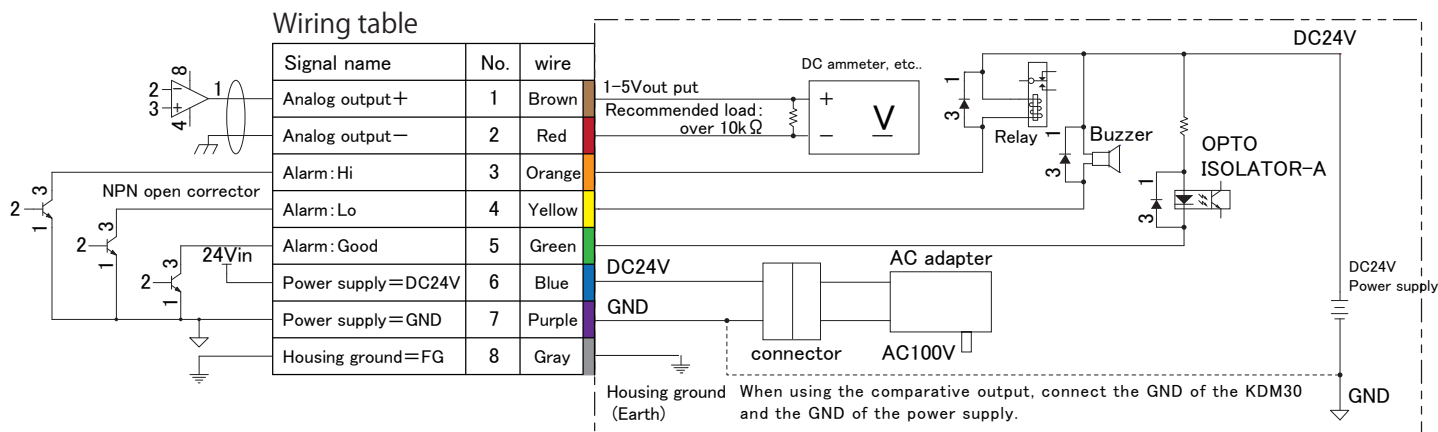
• 4-20mA current output

▼ User side connection example



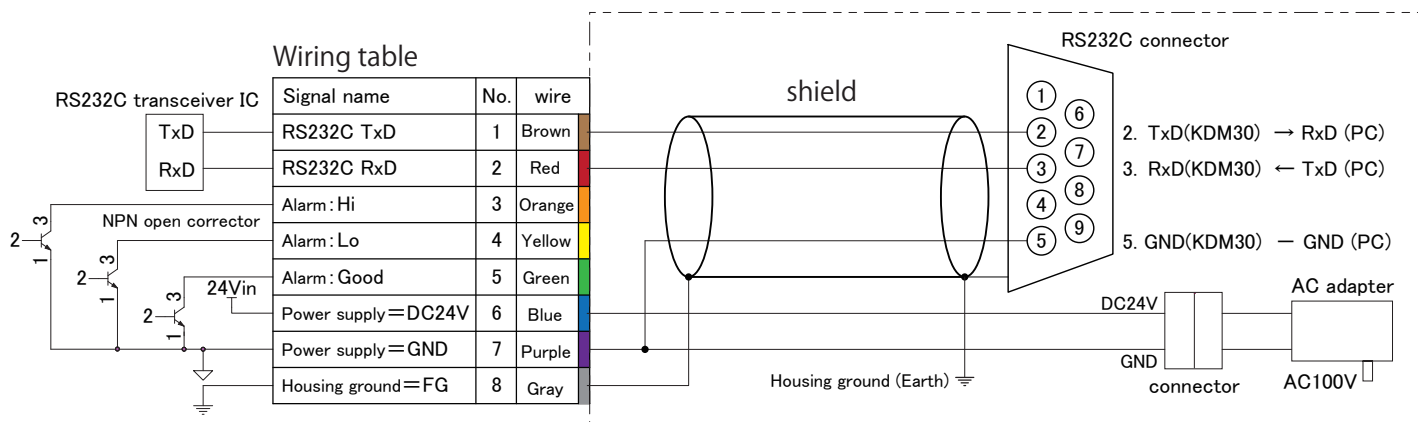
• 1-5VDC voltage output

▼ User side connection example



• RS232C output

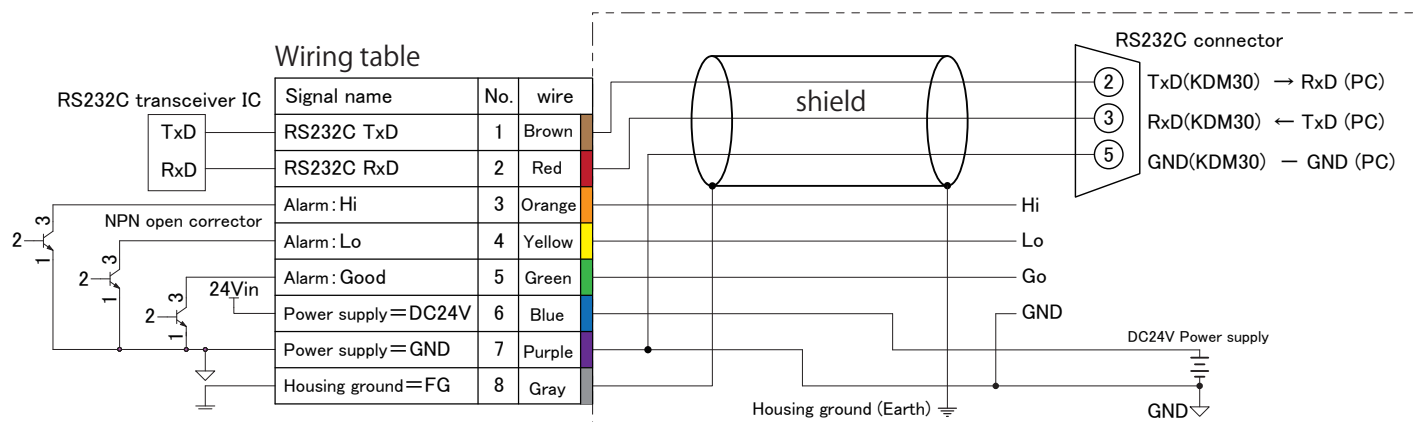
▼ User side connection example



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

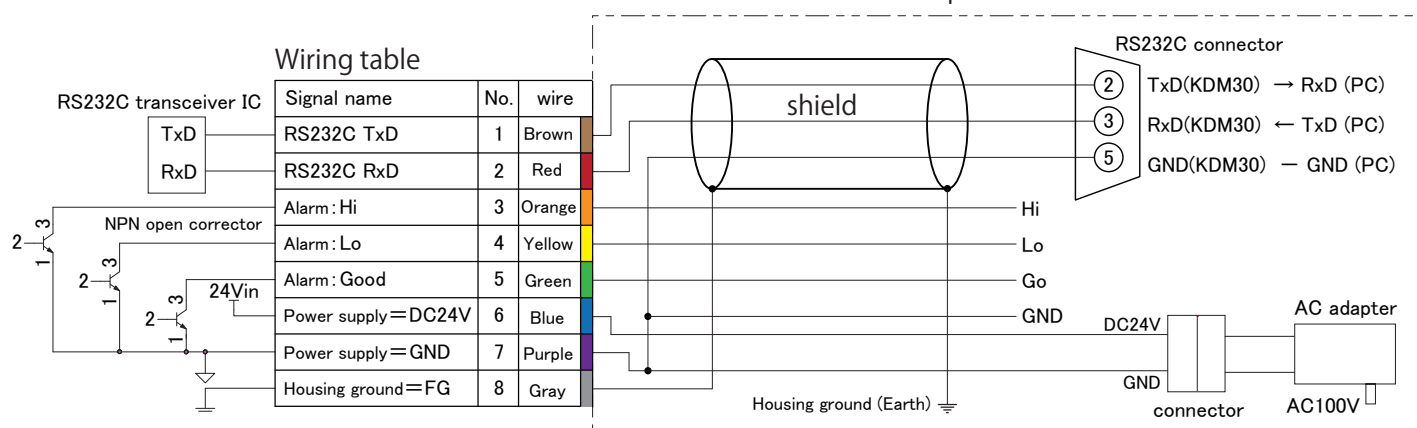
- External 24VDC power supply / RS232C output

▼ 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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