Foreword
☐ The contents of this document are subject to change without prior notice as a result of improvements in performance or functionality.
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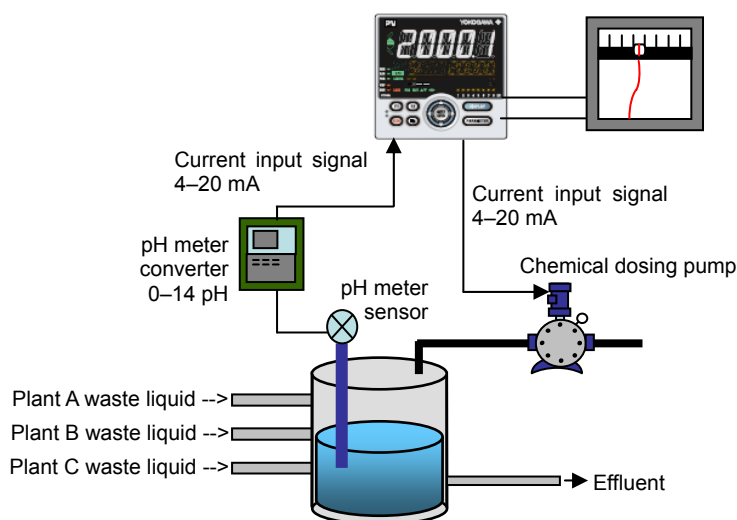☐ Use of this document is at the users risk.

■ Overview

This is an example of wiring and settings using the UTAdvanced Quick Setting function for "pH Control." For more details, see the user's manual.
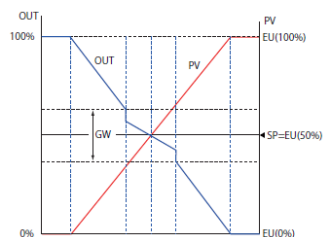
■ Relevant models

Standard models of the UT52A and UT55A (if there are 2 types of pharmaceuticals, select the heating/cooling model)
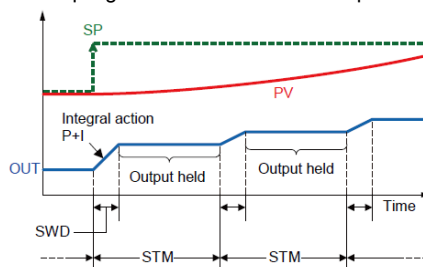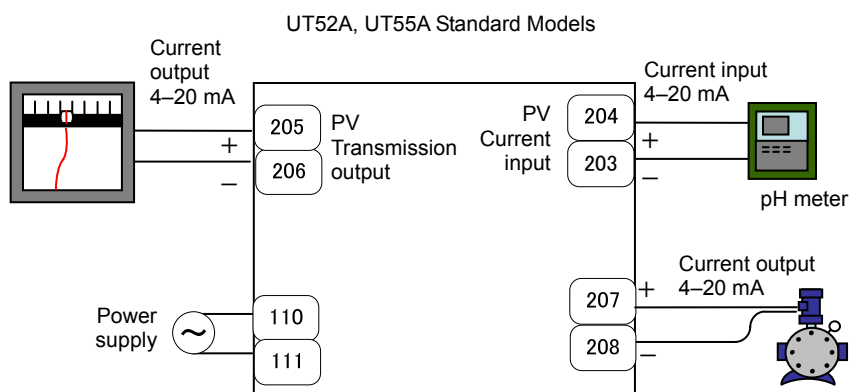
■ System

■ Nonlinear type
Control gain is switched by the Gap Gain Control function

■ Sampling control
Sampling can be controlled to interpolate dead time

■ Wiring

UT52A, UT55A Standard Models

■ Settings

To set the sample PID control, input type (4 to 20 mA), and current control output (4 to 20 mA), set the parameters below.

(1) Select the desired parameter with the UP or DOWN key

(2) Press SET/ENTER (the setting value blinks)

(3) Change the setting with the UP or DOWN key

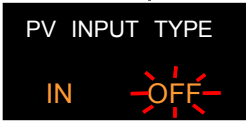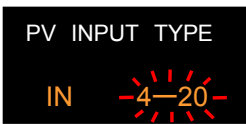(4) Press SET/ENTER to set the new value (the setting value stops blinking but remains bright)

Power

Quick Setting start
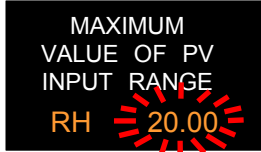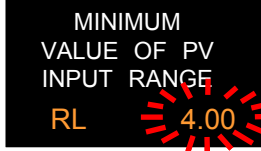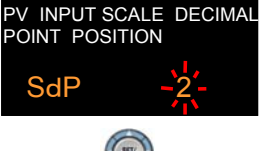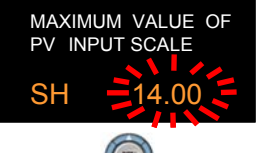
● **Redoing the Quick Setting**

Once functions are configured with the Quick Setting, the Quick Setting function will not appear after you restart. However, you can redo the Quick Setting by following the procedure below.

(1) Set the Quick Setting parameter QSM to ON, and re-engage power

(2) Set the PV input type parameter IN to OFF, and re-engage power

1. START QUICK SETTING
   QSM YES

   Press SET/ENTER to accept the "YES" option.
   Quick Setting starts

2. CONTROL TYPE
   CNt S-PI

   First, the control type parameter CNT appears.
   Set the CNT (control type) to S-PI (sample PI control).

3. PV INPUT TYPE
   IN OFF

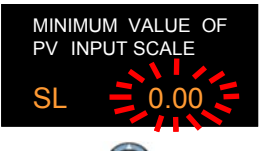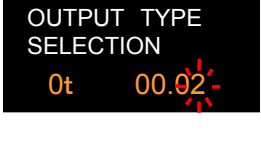   OFF is displayed for IN (the PV input type).

4. PV INPUT TYPE
   IN 4—20

   Set IN (PV input type) to current signal: 4–20
   (4–20 = 4.00 to 20.00 mA).

5. PV INPUT UNIT
   UNIt —

   Set UNIT (PV input unit) to – (none). If necessary, use the unit label "pH."

6.

MAXIMUM
VALUE OF PV
INPUT RANGE
RH   20.00

Set RH (maximum value of PV input range) to 20.00 mA (the initial value).

7.

MINIMUM
VALUE OF PV
INPUT RANGE
RL   4.00

Set RL (minimum value of PV input range) to 4.00 mA (the initial value).

8.

PV INPUT SCALE DECIMAL
POINT POSITION
SdP   -2-

Set SDP (PV input scale decimal point position) to 2.

9.

MAXIMUM VALUE OF
PV INPUT SCALE
SH   14.00

Set SH (maximum value of PV input scale) to 14.00 (pH).

10.

MINIMUM VALUE OF
PV INPUT SCALE
SL   0.00

Set SL (minimum value of PV input scale) to 0.00 (pH).

11.

OUTPUT TYPE
SELECTION
0t   00.02-

Set OT (output type selection) to 00.02: OUT terminal (current 4 to 20 mA).

12.

CONTROL OUTPUT
CYCLE TIME
Ct   30.0

Skip this parameter (not relevant).

13.

FINISH
EXIt   YES

Finally, EXIT is displayed. Select YES and press SET/ENTER to complete the basic function setup and return to the operating screen. Or, you can select NO to continue with the Quick Setting.

Revision Information

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