

OPERATION MANUAL

USI-C Universal Smart Isolator Hand-Held Configurator

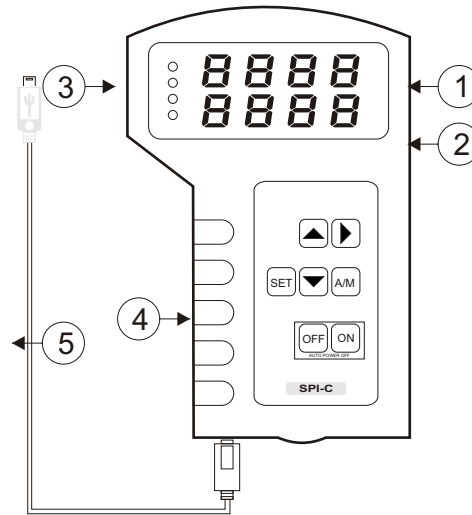
Thank You for selecting **ABUSTEK** products! before operating this instrument, please read this manual carefully and fully understand its contents. In case of any problems, please contact our sales Deptt. or distributors from whom the instrument has been supplied. The manual contents is subject to change without prior notice.

Introduction



USI-C Series Configurator is a handheld configurator for Smart Programmable Isolator. The new handhelds come with a 2.6 inch (3.6 cm) display having 2 lines with 128 by 128 pixel resolution. A SET Key function allows the user to scroll a list of all editable parameters regardless of their position in the configuration menu structure.

Panel



1. **Measured value (PV) display-** It displays PV or various parameter symbols.
2. **Set value (SV) display-** It displays SV or various parameter set values.
3. **Indication Lamps**
 - => SP1 alarm
 - => SP2 alarm
 - => SP3 alarm
 - => Communication lamp
4. **Set Key-** It is used for parameter calling up and set value registration.
 - Up Key-** It increase numerals or build communication.
 - Down Key-** It decreases the numerals.
 - Shift Key-** It shifts the digits when settings are changed.
 - On Key-** It is used to Power On the instrument.
 - Off Key-** It is used to Power Off the instrument.
 - Function Key-** It is used to return the previous parameter.
6. USB Data Link cable.

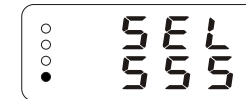
Communication Process

1. Turn on the power supply of transmitter in right away.
2. Connect handheld configurator with transmitter by USB link cable.
3. **Press the UP Key of handheld configurator**, in order to start Communication.
4. Once communication is initialized, Communication Lamp as well as the Power Lamp in the Transmitter will Flash.

Configuration Process

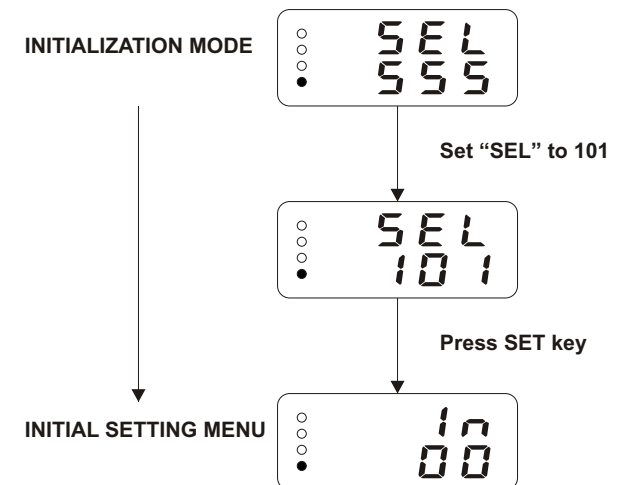
1. Initialization Mode

After communication is OK, Press SET key followed by A/M key to enter into Initialization Mode.



2. Initial Setting Menu

The "SEL" is displayed when the handheld configurator goes into initialization mode.

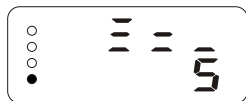


Input Selection (In)



Set Value	Input Type	Input Range
00	K	0 ~ 1300 °C
01	E	0 ~ 900 °C
02	S	0 ~ 1600 °C
03	B	300 ~ 1800 °C
04	J	0 ~ 400 °C
05	T	0 ~ 1300 °C
06	R	0 ~ 1600 °C
07	N	0 ~ 1300 °C
10	DC 0~20mV	-1999 ~ 9999 °C
11	DC 0~75mV	-1999 ~ 9999 °C
12	DC 0~200mV	-1999 ~ 9999 °C
13	DC 0~10V	-1999 ~ 9999 °C
14	DC 2~20V	-1999 ~ 9999 °C
15	DC 0~10mA	-1999 ~ 9999 °C
17	DC 4~20mA	-1999 ~ 9999
20	Pt100	-199.9 ~ 600.0 °C
21	Cu100	-50.0 ~ 150.0 °C
22	Cu50	-50.0 ~ 150.0 °C
23	BA2	-199.9 ~ 600 °C
24	BA1	-199.9 ~ 600 °C
25	G	-199.9 ~ 600 °C
26	Pt100X	-19.99 ~ 99.99 °C
27	0 ~ 400 Ω	-1999 ~ 9999 °C

Process Parameters



≡ = : **Mode of anti-jamming, please do not change the value.**



d 1P : **Decimal Point Position (dip)**



- - - : **PV BIAS, Sensor correction is made by adding bias value to measured value (PV)**



Ldo : **Input limiter [LOW] for input, set scaling within the input range [low] (Ldo)**



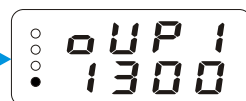
LUP : **Input limiter [HIGH] for input, set scaling within the input range [HIGH] (LUP)**



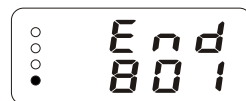
out : **Recommended Settings, Please don't change the values, or it will affect accuracy.**



odo 1 : **Transaction range [Low] (odo1)
Set "odo1"= "Ldo"**



ouP 1 : **Transaction range [High] (ouP1)
Set "ouP1"= "LUP"**



End : **Indicate year and month of production date (End)
Example: It indicates production date as JAN, 2008**

Press Set Key

PV/SV DISPLAY

Precautions

1. When no parameter setting is required, after the values be registered, Press "SET" key and "A/M" key simultaneously to return the instruments to the PV/SV Display.
2. If the displayed value is changed, but not registered, Press "SET" Key to register the respective value.

Limited Warranty

The products are warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of shipment, subject to the following terms and conditions: Without charge, they will repair, replace, or refund the purchase price at option products found to be defective in materials or workmanship within the warranty period; provided that:

- the product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of labels or instructions;
- the product has not been repaired or altered by anyone except us;
- the maximum ratings label and serial number or date code have not been removed, defaced, or otherwise changed;
- examination discloses, in the judgment of us, the defect in materials or workmanship developed under normal installation, use and service; and
- Our system is notified in advance of and the product is returned to us transportation prepaid before expiration of the warranty period.

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