CS2-VA VOLT / CURRENT Meter

DESCRIPTION

CS2-VA Voltage/Current Indicator has been designed with high accuracy measurement, display and communication of 0~600V or 0~10A for DC/AC/TMRS.

☑ Adtek builds flexible function as like as 3 bank (for multi-range scaling and set point) and 3 external control inputs meet to various testing equipment inquiry.

They are also build in 4 Relay outputs, 3 External Control Inputs, 1 Analogue output and 1 RS485 (Modbus RTU Mode) interface with versatile functions such as control, alarm, re-transmission and communication for a wide range of industrial applications.



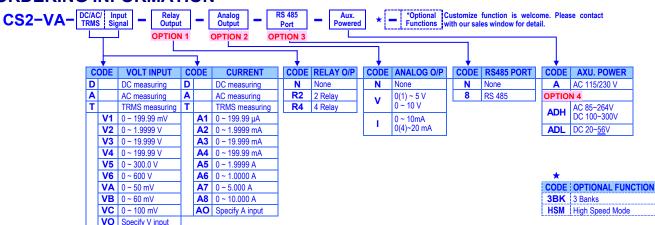
■ FEATURE

- Measuring Voltage 0~600V or Current 0~10A for DC / AC / TRMS
- Optional 4 banks pre-set for all relay functions are relative to 4 difference scaling, and selectable by 3
 External Control Inputs(E.C.I.) or front key
- 4 relay can be programmed individual to be a Hi / Lo / Hi Latch / Lo Latch / Go energized with Start Delay / Hysteresis / Energized & De-energized Delay functions, or to be a remote control.
- Analogue output and RS 485 communication port in option
- 3 external control inputs can be programmed individual to be Relative PV (Tare) / PV Hold / Maximum or Minimum Hold / DI (remote monitoring) / Reset for Relay Energized Latch....
- CE Approved & RoHS

■ APPLICATIONS

- Testing Equipments for Volt/Current Measuring, Alarm, Control and Communication with PC/PLC
 ☑ Flexible 3 DI functions as like as Maximum/Minimum hold, PV hold and Relative PV.
 ☑ 4 Relay functions as like as Hi / Lo / Go with on and off delay time from 0.0(s)~ 9(m):59.9(s)
 ☑ 3 Banks preset for individual Hi / Lo scale, decimal point and 4 relay energized level and functions.
- MCC panel, Machinery, Switch gear... for Voltage or Current Measuring, Alarm and Remote I/O with PC/PLC
 ☑ Fantastic 4 Relay functions as like as Hi / Lo / Hi latch / Lo latch / DO(Remote control by PC/PLC).
 ☑ Flexible 3 DI functions as like as Reset for Relay energized and Remote monitoring by PC/PLC.

■ ORDERING INFORMATION



■ TECHNICAL SPECIFICATION

Input					
Measuring Range DC / AC / TRMS		Input Impedance	Measuring Range DC / AC / TRMS		Input Impedance
Voltage	0~50/~100 mV	≥5M ohm	Current	0~199.99µA	1K ohm
	0~199.99 mV	≥5M ohm		0~1.9999 mA	100 ohm
	0~1.9999 V	≥1M ohm		0~19.999 mA	10 ohm
	0~19.999 V	≥1M ohm		0~199.99 mA	1 ohm
	0~199.99 V	≥1M ohm		0~1.9999 A	0.05 ohm
	0~300.0 V	≥2M ohm		0~5.000 A	0.02 ohm
	0~600.0 V	≥2M ohm		0~10.000 A	0.01 ohm

Calibration:
A/D converter:
Accuracy:

Sampling rate: Response time: Input range: Digital calibration by front key

16 bits resolution

DC: ≤± 0.04% of FS ± 1C

AC: ≤± 0.1% of FS ± 1C

15 cycles/sec

≤ 100 msec.(when the AvG = "1") in standard Input High and Low programmable

R ⋅ H ⋅ : Settable range: 0.00~100.00% of input range

R Lo: Settable range: 0.00~100.00% of input range

Display & Functions LED:

Numeric: 5 digits, 0.8"(20.0mm) red high-bright LED Relay output indication: 4 square red LED RS 485 communication: 1 square orange LED E.C.I. function indication: 3 square green LED Max/Mini Hold indication: 2 square orange LED

<u>Display range:</u> -19999~29999;

Decimal point:

Scaling function: LoSC: Low Scale; Settable range: -19999~+29999

H .5E: High Scale; Settable range: -19999~+29999 Programmable from 0 / 0.0 / 0.00 / 0.000 / 0.0000

Banks function: Extra 3 banks programmable for scaling & decimal point
Over range indication:
Under range indication:

Max / Mini recording:
Display functions:
Front key functions:

Extra 3 banks programmable for scaling & decimal point
oufl, when input is over 20% of input range Hi

Aximum and Minimum value storage during power on.

PV / Max(Mini) Hold / RS 485 Programmable

Up and down key can be set to be a function as ECI.

Low cut: Settable range: -19999~29999 counts

Pu?ro: Settable range: -19999~+29999

PuSPn: Settable range: -19999~+29999

Reading Stable Function

Average: Settable range: 1~99 times

Moving average: Settable range: 1(None)/~10 times

Digital filter: Settable range: 0(None)/1~99 times

Control Functions(option)

Set-points: Four set-points
Control relay: Four relays

Relay 2 & Relay 3: Dual FORM-C, 5A/230Vac, 10A/115V Relay 1 & Relay 4: Dual FORM-A, 1A/230Vac, 3A/115V

Banks pre-set: 4 banks pre-set for all relay functions to relative 4

difference scaling, and selectable by 3 External Control Inputs(E.C.I.) Or front key

Relay energized mode: Energized levels compare with set-points:

Hi / Lo / Go.12 / Go.23 / Hi.HLd / Lo.HLd; programmable DO function: Energized by RS485 command of master.

Energizing functions: Start delay / Energized & De-energized delay / Hysteresis /

Energized Latch

Start band(Minimum level for Energizing): 0~9999counts
Start delay time: 0:00.0~9(Minutes):59.9(Second)
Energized delay time: 0.00.0~9(Minutes):59.9(Second)
De-energized delay time: 0.00.0~9(Minutes):59.9(Second)

Hysteresis: 0~5000 counts

External Control Inputs(ECI)

 Input mode:
 3 ECI points, Contact or open collect input, Level trigger

 Functions:
 Relative PV(Tare) / PV Hold / Reset for Max or Mini. Hold /

DI / Reset for Relay Energized latch / Banks selection

<u>Debouncing time:</u> Settable range 5 ~255 x (8mseconds)

Analogue output(option)

Accuracy: ≤± 0.1% of F.S.; 16 bits DA converter

Ripple: $\leq \pm 0.1\%$ of F.S.

 Response time:
 ≤100 msec. (10~90% of input)

 Isolation:
 AC 2.0 KV between input and output

Output range: Specify either Voltage or Current output in ordering

Voltage: $0\sim5V$ / $0\sim10V$ / $1\sim5V$ programmable **Current:** $0\sim10\text{mA}$ / $0\sim20\text{mA}$ / $4\sim20\text{mA}$ programmable

Output capability: Voltage: 0~10V: ≥ 1000Ω;

Current: 4(0)~20mA: ≤ 600Ω max

Functions: RoH5 (output range high): Settable range: -19999~29999
RoL5 (output range Low): Settable range: -19999~29999

RoL 5 (output High Limit): 0.00~110.00% of output High

Digital fine adjust: RoPro: Settable range: -38011~+27524

Ro.5Pn: Settable range: -38011~+27524

RS 485 Communication(option)

Protocol: Modbus RTU mode

Baud rate: 1200/2400/4800/9600/19200/38400 programmable

Data bits: 8 bits

Parity: Even, odd or none (with 1 or 2 stop bit) programmable

Address: 1 ~ 255 programmable

Remote display: to show the value from RS485 command of master

Distance:1200MTerminate resistor:150Ω at last unit.

Electrical Safety

<u>Dielectric strength:</u> AC 2.0 KV for 1 min, Between Power / Input / Output / Case

 Insulation resistance:
 ≥100M ohm at 500Vdc, Between Power / Input / Output

 Isolation:
 Between Power / Input / Relay / Analogue / RS485 / E.C.I.

EMC: EN 55011:2002; EN 61326:2003

 Safety(LVD):
 EN 61010-1:2001

 Vibration:
 1~800 Hz, 3.175 g²/Hz

Environmental

Operating temp.: 0~60 °C

Operating humidity: 20~95 %RH, Non-condensing

Temp. coefficient:≤100 PPM/°CStorage temp.:-10~70 °C

Enclosure: Front panel: IEC 529 (IP52); Housing: IP20

Mechanical

 Dimensions:
 96mm(W) x 48mm(H) x 120mm(D)

 Panel cutout:
 92mm(W) x 44mm(H)

 Case material:
 ABS fire-resistance (UL 94V-0)

 Mounting:
 Panel flush mounting

Mounting: Panel flush mounting

Terminal block: Plastic NYLON 66 (UL 94V-0)

#A1~A3(current input): 20A/300Vac, M3.5, 12~22AWG

Optional: AC 85~264V / DC 100~300V or DC 20~56V

Others: 10A 300Vac, M2.6, 16~22AWG

Weight: 550g / 350g(Aux. Power Code: ADH or ADL)

Power

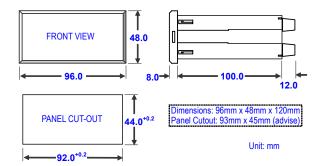
Power supply: AC115/230V,50/60Hz;

Power consumption: 5.0VA maximum **Back up memory:** By EEPROM

■ FRONT PANEL

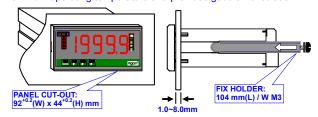


DIMENSIONS

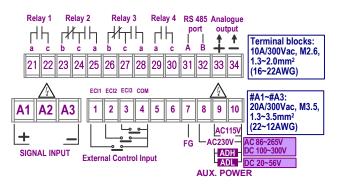


■ INSTALLATION

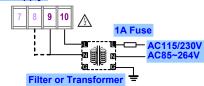
The meter should be installed in a location that does not exceed the maximum operating temperature and provides good air circulation.



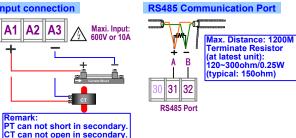
■ CONNECTION DIAGRAM



Please check the voltage of power supplied first, and then connect to the specified terminals. It is recommended that power supplied to the meter be protected by a fuse or circuit breaker.



Input connection

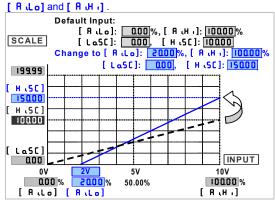


■ FUNCTION DESCRIPTION

Input & Scaling Functions

Input range: Analogue input High and Low programmable The meter has to be specified and fixed according to ordering code (ex. 0~10A or 0~300V) in factory. If the meter has to install in difference range of input, the meter can be set in function [A Lo] and [A H I] of input group to meet the input signal.

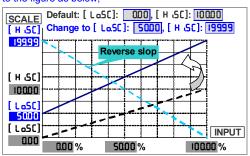
For example: The meter is 0~10Aac input, and the signal from sensor is 0~5Aac. Please get into [inPUL GroUP] to set [R iH i] (Analogue input high) to be $50.00\%(10A \times 50.00\% = 5A)$, then the meter has been changed the input range to 0~5A and the all relative parameters will work base on 0~5A. The meter doesn't need re-calibration after change the



The setting may course display lower resolution. Please set lower resolution when the input signal has been high compressed

Scaling function:

Setting the Lo.SC (Low scale) and Hi.SC (High scale) in [inPut Group] to relative input signal. Reverse scaling will be done too. Please refer to the figure as below,



*Too narrow scale may course display lower resolution.

Display & Functions

Max / Mini recording:

The meter will storage the maximum and minimum value in [User Level] during power on in order to review drifting of

Display functions:

(Please refer to step A-09)

PV / Max(Mini) Hold / RS 485 programmable in [dSPL y] function of [inPUE GroUP]

Present Value Pu: The display will show the value that Relative to Input signal.

Maximum Hold R\Hd / Minimum Hold กิก เHd : The meter will keep display in maximum(minimum) value during power on, until manual reset by front key in [User Level], rear terminal is close [External Control Input(E.C.I.)] or press front down or up key to reset (according. to setting,

please functions of refer to the ECI Group)

Please find the

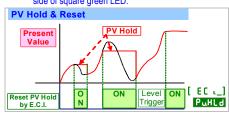
MI sticker that enclosure the package of the meter to stick on the right side of square orange LED



Remote Display by RS485 command -5485: Themeter will show the value that received from RS485 sending. In past, The meter normally receive 4~20mA or 0~10V from AO or digital output from BCD module of PLC. We support a new solution that PV shows the value from RS485 command of master can so that can be save cost and wiring from PLC.

PV Hold PuHL d: [External Control Input(E.C.I.)] can be set to be PuHLd function(Please refer to the function of ECI Group). The display will be hold, when the E.C.I. is closed.

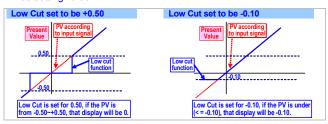
▶ Please find the **ECIPU**sticker to stick on the right side of square green LED.



Amend: 2010/4/26: Modify the terminals and range for DC power supply from AC/DC 20~56V to DC 20~56V.

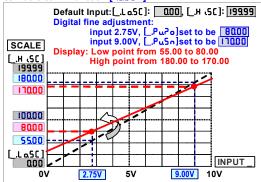
Low cut:

If the setting value is positive, it means when the absolutely value of PV ≤ Setting value, the display will be 0. If the setting value is negative, it means when the PV under setting value(PV≤ -Setting value), the display will be setting value.



Digital fine adjustment:

Users can get Fine Adjustment for Zero & Span of PV by front key of the meter, and "Just Key In" the value which user want to show in the current input signals. Especially, the [PuPro] & [PuSPn] are not only in zero & span of PV, but also any lower point for [Puʔro] & higher point for [PuSPn]. The meter will be linearization for full scale. The adjustment can be clear in function [P.S.CLr]



Reading Stable Function

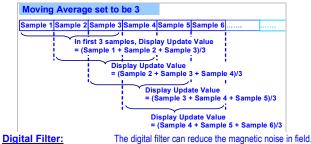
Average:

Basically, the sampling rate of meter is 15cycles/sec. If the function set to be 3 times, It means the meter will update of display will be 5 times/sec



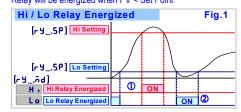
Moving average:

If the function to be set 3 times, the meter will update delay in first 3 samples, then it will update 15 times/sec continuously.



Control Functions(option)

Relay energized mode: Hi / Lo / Hi.HLd / Lo.HLd / do / Go-1.2 / Go-2.3 programmable Hi H (Fig.1-1): Relay will be energized when PV > Set Point Lo Lo (Fig.1-2): Relay will be energized when PV < Set Point



Go-1.2 Jo- €

This function is programmable in Relay 4 only.

If the Relay 4 set to be Go function, the relay will compare with [-4 (SP)] and [-42.5P].

Go relay energized when the condition is

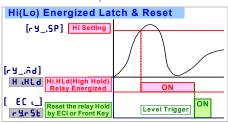
[r y lSP] (Hi) > PV > [r y 2.5P] (Lo)

Go-2.3 Go-2.3:

This function is programmable in Relay 4 only. If the Relay 4 set to be Go function, the relay will compare with [r 42.5P] and [r 43.5P]. Go relay energized when the condition is [r y 2.5 P] (Hi) > PV > [r y 3.5 P] (Lo)

Hi.HLd H .HLd (Lo.HLd L o.HLd):

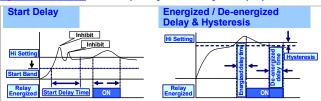
When the PV is Higher (or lower) than set-point, the relay will be energized and latch until manual reset by from key in [User Level], [External Control Input(E.C.I.)] is closed or Press front down or up key to reset (UP Key or Down Key functions have been set to be "YES").



DO function Lenergized by RS485 command of master.

The function was designed to get remote control by RS485 command of master. The typical application is to control a switch in field from computer center as like as digital output(DO) of PLC

Energized Functions: Start delay / Energized & De-energized delay / Hysteresis



External Control Inputs(ECI)

The three external control inputs are individually programmable to perform specific meter control or display functions. All E.C.I. have been designed in level trigger actions. Please pay attention, the ECI1 or ECI2 input will be disable while UP or Down Key has been set to be "YES" **Functions:**

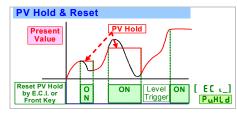
Relative PV / PV Hold / Reset Max or Mini. Hold / DI / Reset for Relay Energized latch / banks selection (option)

programmable.

Relative PV FEL.Pu: or Tare PV Hold Pulld:

The E.C.I. can be set to be **FEL.Pu** function. When the E.C.I. is closed, the reading will show the differential value. The E.C.I. can be set to be PuHL d function. The display

will be hold when the E.C.I. is closed, until the E.C.I. is to be open. Please refer to the below figure.



Reset for Maximum or Minimum Hold ar 5t:

When the [dSPLY] function in [InPUL GroUP] selected **กลุ่งHd** or **ก เกษ**, the display will show Maximum or Minimum value, and can be reset by the E.C.I (close). Please refer to the figure as below.



DI d :

The E.C.I can be set to be diffunction, when the meter

building in RS485 port. It is easier to get remote monitoring a switch status through the meter as like as DI of PLC.

Reset for Relay Energized Latch: | If relay energized mode has set to be Energized latch
| H JHLd | LaHLd |, the E.C.I. can be set to be Energized latch
| When the PV meets the condition of relay energizing, the relay

will be energized and latch until the E.C.I. is closed.

Debouncing time:

The function is for avoiding noise signal to into the meter. And The basic period is 8mseconds. It means you set the number that has to multiple 8mseconds. For example: [dEbnC] set to be 5, it means 5 x 8mseconds = 40mseconds

Analogue output(option)

Please specify the output type either an 0~10V or 4(0)~20mA in ordering. The programmable output low and high scaling can be based on various display values. Reverse slope output is possible by reversing point positions.

Output range:

range: Voltage: 0~5V / 0~10V / 1~5V programmable

Functions:

Current: 0~10mA / 0~20mA / 4~20mA programmable
Output High / Low scale, output limit, fine adjustment
To setting the Display value High to versus output range

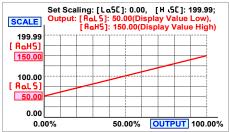
output range high [RoH5]:

High(as like as 20mA in 4~20)

To setting the Display value Low to versi

output range low [RoL5]:

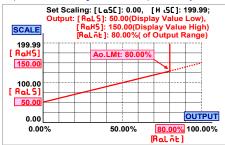
To setting the Display value Low to versus output range Low(as like as 4mA in 4~20)



The range between [RaH5] and [RaL5] should be over 20% of span at least; otherwise, it will be got less resolution of analogue output.

output High Limit [RaLāt]:

0.00~110.00% of output High User can set the high limit of output to avoid a damage of receiver or protection system.



Fine zero & span adjustment:

Users can get Fine Adjustment of analogue output by front key of the meter. Please connect standard meter to the terminal of analogue output. To press the front key(up or down key) of meter to adjust and check the output.

AO Zero [Ra2ro]:

Fine Zero Adjustment for Analog Output;

Settable range: -38011~27524;

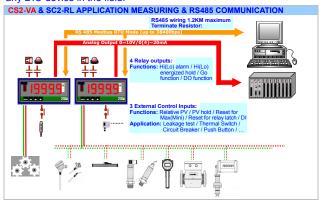
AO Span [RoSPn]:

Fine Span Adjustment for Analog Output;

Settable range: -38011~27524;

RS 485 communication(option)

The RS485's protocol is Modbus RTU mode, and baud rate up to 38400 bps. It's not only convenience to remote monitoring, display for reading and ECI status, but also for remote control in the case that doesn't have any DIO device in the field.



Remote Display:

The meter will show the value that received from RS485 command. In past, The meter normally receive 4~20mA or 0~10V from AO or digital output from BCD module of PLC .We support a new solution that PV shows the value from RS485 command of master so that can be **save cost and wiring** from PLC.

When the [dSPLY] set to be RS485, it means, the PV screen will show the number from RS485 command & data. The data(number) will be same as PV that will compare with set-point, analogue output and ECI functions so that is to control analogue output, relay energized and so on.



Calibration

System calibration by front key. The process of calibration, please refer to the operating manual

Optional Function

Customize function with quantities is welcome. Please contact with our sales for detail. The appendix code of optional function will be add behind the code of auxiliary power as like as xxx-A-HSM.

Banks function: (appendix code: -3BK)

- The function is for CS2 to control difference process with a same meter.
- For example; A pressure testing equipment; it has to measure
 multi-range with difference pressure transducers. The meter can be
 pre-set 4 groups parameter to show difference scale and relay energized
 in difference set-points. The operator just selects the bank number
 (bank1) by [External Control Input(ECI)] or front key operating in [User
 Level] to meet the process. To make easier operating and to avoid
 mistake in process.

■ ERROR MESSAGE

BEFORE POWER ON, PLEASE CHECK THE SPECIFICATION AND CONNECTION AGAIN.					
SELF-DIAGNOSIS AND ERROR CODE:					
DISPLAY	DESCRIPTION	REMARK			
ouFL	Display is positive-overflow (Signal is over display range)	(Please check the input signal)			
-oufL	Display is negative-overflow (Signal is under display range)	(Please check the input signal)			
oufl	ADC is positive-overflow (Signal is higher than input 120%)	(Please check the input signal)			
-ouFL	ADC is negative-overflow (Signal is lower than input -120%)	(Please check the input signal)			
EEP 🔁 FR iL	EEPROM occurs error	(Please send back to manufactory for repaired)			
A iCinG 🚔 Pu	Calibrating Input Signal do not process	(Please process Calibrating Input Signal)			
R iC 🚔 FR iL	Calibrating Input Signal error	(Please check Calibrating Input Signal)			
RoC.nG 🕏 Pu	Calibrating Output Signal do not process	(Please process Calibrating Output Signal)			
RoC 韋 FR iL	Calibrating Output Signal error	(Please check Calibrating Output Signal)			

FRONT PANEL:



Numeric Screens

0.8"(20.0mm) red high-brightness LED for 4 2/3 digital present value.

- I/O Status Indication
- Relay Energized: 4 square red LED
 - **RL1** display when Relay 1 energized;
 - **RL2** display when Relay 2 energized;
 - display when Relay 3 energized;
 - RI4 display when Relay 4 energized;
- External Control Input Energized: 3 square green LED
 - display when E.C.I. 1 close(dry contact)
 - tisplay when E.C.I. 2 close(dry contact)
 - display when E.C.I. 3 close(dry contact)
- RS485 Communication: 1 square orange LED
 - **COM** will flash when the meter is receive or send data, and **COM** flash quickly means the data transient quicker.
- Max/Mini Hold indication: 2 square orange LEDs
 - displayed: When the display function has been selected in Maximum or Minimum Hold function.
- Stickers:

Each meter has a sticker what are functions and engineer label enclosure.

- Relay energized mode: H H H I LO LL DO
- E.C.I. functions mode:
 - PV.H PV.H(PV Hold) / Tare Tare / DI DI(Digital Input)
 - M.RS (Maximum or Minimum Reset) /
 - RRS R.RS(Reset fo Relay Latch)
- Engineer Label: over 80 types.

Operating Key: 4 keys for Enter(Function) / Shift(Escape) / Up key / Down key

	Setting Status	Function Index
Tup key	Increase number	Go back to previous function index
Down key	Decrease number	Go to next function index
Shift key	Shift the setting position	Go back to this function index, and abort the setting
Enter/Fun key	Setting Confirmed and save to EEProm	From the function index to get into setting status

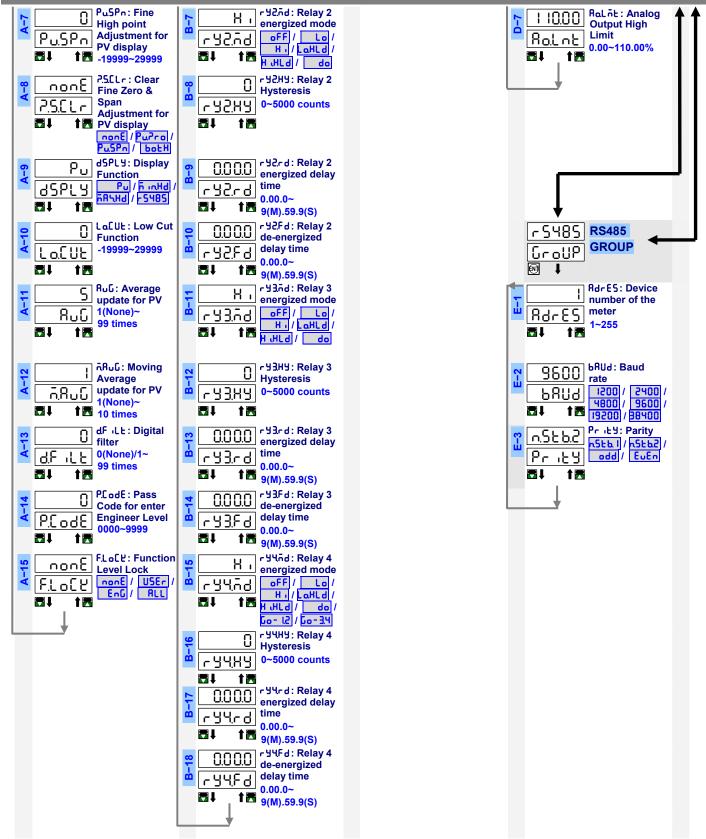
Pass Word P.CodE: Settable range: 0000~9999;

User has to key in the right pass word so that get into [Programming Level] . Otherwise, the meter will go back to measuring page. If user forgets the password, please contact with the service window.

- Function Lock: There are 4 levels programmable.
- None nonE: no lock all.
- <u>User Level</u> <u>USEr</u>: User Level lock. User can get into
 User Level for checking but setting.
- Programming Level EnG: Programming level lock.
 User can get into programming level for checking but setting.
- ALL RLL: All lock. User can get into all level for checking but setting.
- Front Key Function
- The Key can be set to be the same function as the setting of ECI1.

 Ex. The ECI1 set to be PuHLd and the function [E. I=UP] set to be UES in [EC · GroUP]. When user presses Key, the PV will hold as like as ECI1 close.
- - ► If the front key function has been set, the terminal input for ECI will be disabling.

■ OPERATING DIAGRAM (The detail description of operation, please refer to operating manual.) **User Level Power ON** Press for 1 sec. can back to Measuring ŧ IOOOO cytSP: Relay 4 29999 If the [d5PL9] กักริษ: Reset the **Self-diagnosis** 8.8.8.8. saved value of function has Set-point ~ Y4.5P 그 드 드 Maximum & been set -5485 -19999~29999 Minimum Pu: Present 1 1 Value YES / no 10000 rg ISP: Relay 1 Show the model number r4r5t: Reset model number 8- [4] nol firmware Set-point for energized ŧ -y 15P Latch of Relay [S2.J8] version <u> Ի</u>ԱՐՏԵ -19999~29999 **Checking only** YES / **₩** t 📆 **†** 1 **7** r Y25P: Relay 2 Set-point **Optional** Show ñ in: the |vEr (4| 0.0000 ԵռԸ- ∷ Bank selection the firmware Minimum value -42.5P -19999~29999 of PV saving PBUR امر م ↑ bnt-5 / bnt-3 / 1 Checking only **₩** 1 MEASURING 29999 Cyclic to first 10000 cy35P: Relay 3 29999 685: the PAGE 2999.9 Set-point Maximum value - 43.5P | -19999~29999 点 合为 of PV saving Ρυ Press 1sec → ↑ Checking only **↑ †** ←Press 1sec **Enter the** Enter password to access Engineer P.CodE Level Ð ↓ **Programming Level** Pass Code YES I Press T for 1 sec. can back to Measuring Default:1000 |▼|inPUT relay <mark>relay</mark> ٤٤ **EXTERNAL** Ť Analogue Ť **GROUP OUTPUT GROUP** CONTROL ნიისგ [ნიისმ GroUP| Ť INPUT (E.C.I) **GROUP ®** ↓ **₩** ↓ END I **GROUP** ☐ - 45b: Start band for Relay EC cl: External Ro.E YP: A Lo: Analogue 84-50 0.001 | - Ը Լ.Քս| **Analogue Output** input low **Control Input 1** energized 0.00~100.00% type selection 8 .Lo| EC . H nonE / rEL.Pu / RotyP u0-10/u0-5/ u1-5/R0-10/ 0~9999counts uHLd / incst t 📉 t 📆 **†** -4.-St / d . / RO-20 / R4-20 **ው** የተመሰ 0.000 r45d: Start us time for Relay RoLS: Analogue Low Output ֊ Կ5ժ : Start delay 100.00 R off it: Analogue input High EC ₁2: External ԻԴԱՐՎ **Control Input 2** energized versus Low N, K, R Ro.L S 0.00~100.00% اح.، nonE / rEL.Pu PuHLd / \(\bar{n}\cdot SE\) / \(\delta \cdot \) Scale 0.00.0~ **†** ↑ (M).59.9(S) 19999~29999 **□** ↓ **†** *Puf-5 PudP: Decimal Point High Output าร เกิส: Relay 1 EC 3: External energized mode **Control Input 3** Pu.dP _ RoHS versus High 0 / 00 / off / Lo / nonE / rEL.Pu / راح الآم E. 33 Scale H . / LaHLd / PuHLd / incSt 0.00 / 0.000 / 00000 H HLd / do 19999~29999 **†** -4-5t / d i / Puf-3 Ro?ro: Fine Zero U เหม: Relay 1 Hysteresis LaSE: Low scale of PV dEbnC: **Debouching of** -19999~29999 0~5000 counts external control **Analogue Low** L o.50 -9 (X9 80.2col d6bn6| Output Input 1 📆 **† ↑** -38011~27524 1 5~255(x8ms) 0.00.0 rg lcd: Relay i IDDDD H (SC: High scale of PV E. I=UP: ECI.1 set Aa5Pn: Fine $\cap \circ |$ to be UP Key Span Adjust. for **Analogue High** -19999~29999 time E. 1<u>-</u> UP function H .SC ry (rd RoSPn Output 0.00.0~ YES / no 1 (M).59.9(S) 1 -38011~27524 **₩ † ₩** COOOL ry lFd: Relay de-energized гУ lFd: Relay 1 Span Clear for 25.CLr: Zero & Puʔro: Fine Low E.2 : dn : ECI.2 set $\cap \circ |$ point to be Down Key . Adjustment for delay time function Adjustment <u> ۱۰٬۲۲۵</u> -9 KPd <u>E.2 : dn</u>] PV display nonE / Ra?ro / YES / 0.00.0~ 1 t 📆 1 -19999~29999 9(M).59.9(S) RaSPn / botH **Next Page Next Page Next Page Next Page**



▶ Plesae refer to operating manual for detail description

▶ Plesae refer to operating manual for Banks function description and operating.