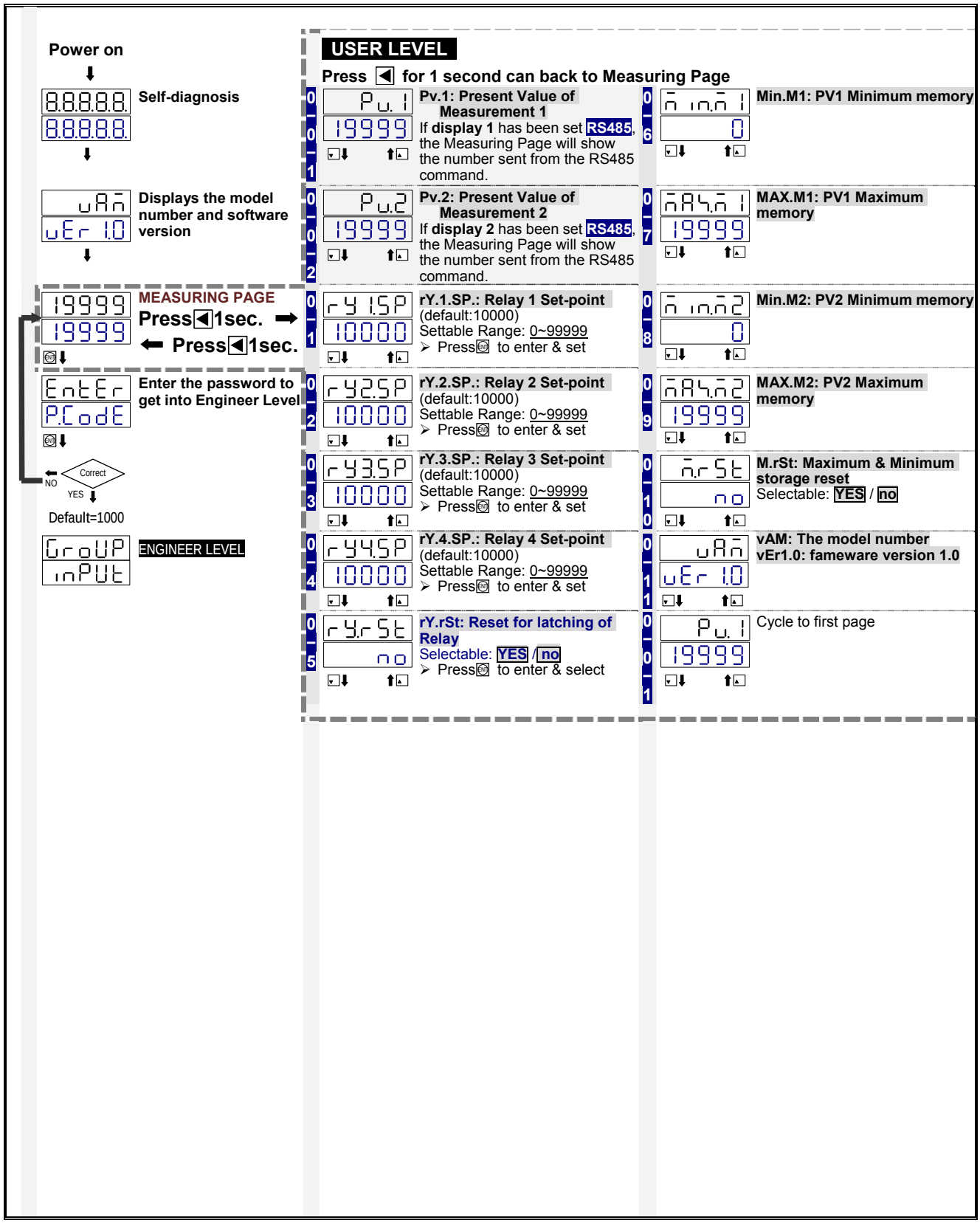
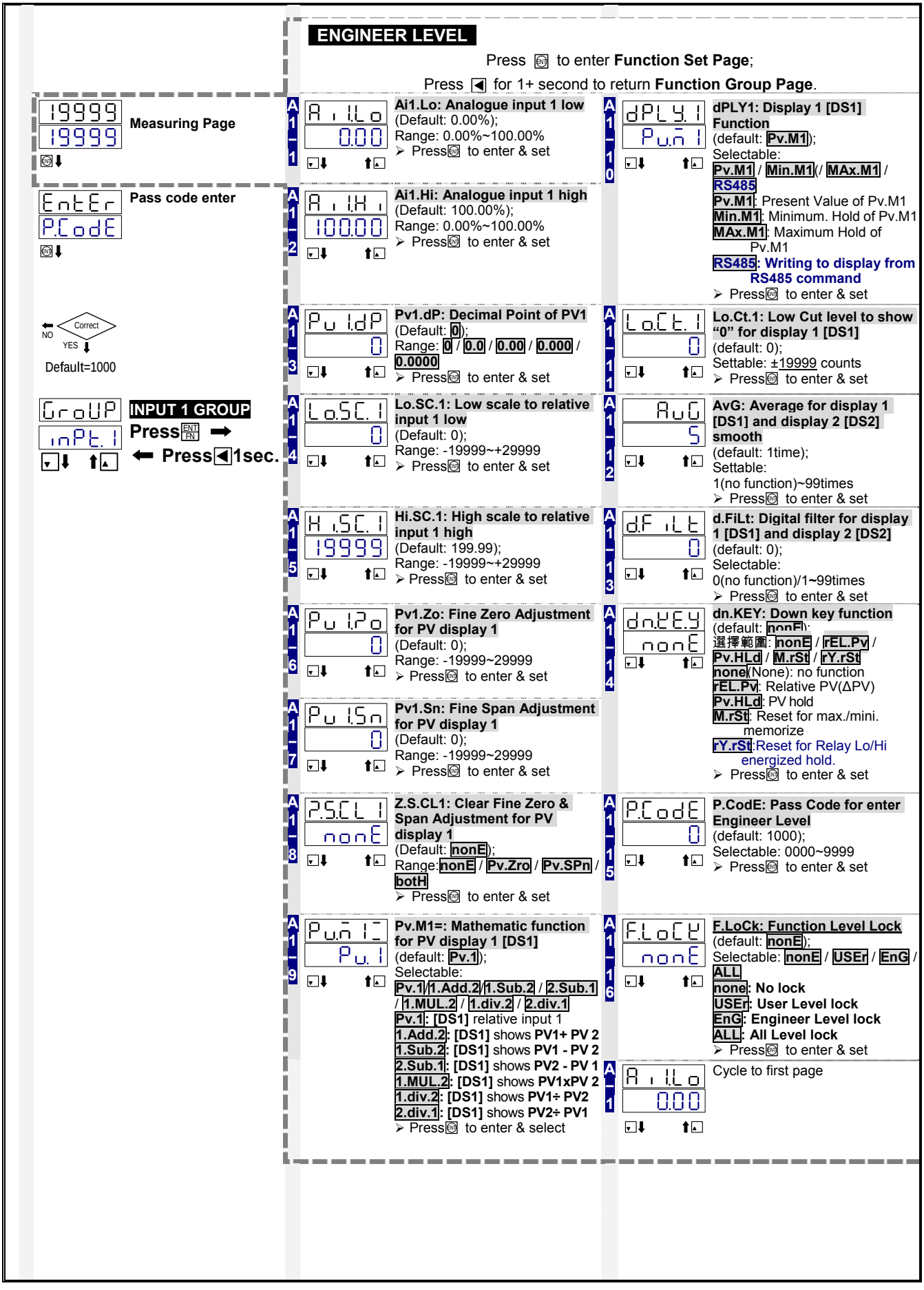
■ OPERATION MANUAL:

➢ USER LEVEL



➢ ENGINEER LEVEL – INPUT 1 GROUP



➢ ENGINEER LEVEL – INPUT 2 GROUP

GroUP **INPUT 2 GROUP**
inPt.2 **Press** ENT ➡
⬅ **Press** ◀ **1sec.**

ENGINEER LEVEL

Press ENT to enter **Function Set Page**;
Press ◀ 1+ second to return **Function Group Page**.

A2-1 — A i2.Lo / 0.00
Ai2.Lo: Analogue input 2 low
(Default: 0.00%);
Range: 0.00%~100.00%
➢ Press ENT to enter & set

A2-2 — A i2.Hi / 100.00
Ai2.Hi: Analogue input 2 high
(Default: 100.00%);
Range: 0.00%~100.00%
➢ Press ENT to enter & set

A2-3 — Pu2.dP / 0
Pv2.dP: Decimal Point of PV2
(Default: **0**);
Range: **0** / **0.0** / **0.00** / **0.000** / **0.0000**
➢ Press ENT to enter & set

A2-4 — Lo.SC.2 / 0
Lo.SC.2: Low scale to relative input 2 low
(Default: 0);
Range: -19999~+29999
➢ Press ENT to enter & set

A2-5 — Hi.SC.2 / 19999
Hi.SC.2: High scale to relative input 2 high
(Default: 199.99);
Range: -19999~+29999
➢ Press ENT to enter & set

A2-6 — Pu2.Po / 0
Pv2.Zo: Fine Zero Adjustment for PV display 2
(Default: 0);
Range: -19999~29999
➢ Press ENT to enter & set

A2-7 — Pu2.Sn / 0
Pv2.Sn: Fine Span Adjustment for PV display 2
(Default: 0);
Range: -19999~29999
➢ Press ENT to enter & set

A2-8 — P.S.CL2 / nonE
Z.S.CL2: Clear Fine Zero & Span Adjustment for PV display 2
(Default: **nonE**);
Range:**nonE** / **Pv.Zro** / **Pv.SPn** / **botH**
➢ Press ENT to enter & set

A2-9 — Pu.M2= / Pu2
Pv.M2=: Mathematic function for PV display 2 [DS2]
(default: **Pv.2**);
Selectable:
Pv.2/**1.Add.2**/**1.Sub.2** / **2.Sub.1** / **1.MUL.2** / **1.div.2** / **2.div.1**
Pv.2: **[DS2]** relative input 2
1.Add.2: **[DS1]** shows **PV1+ PV 2**
1.Sub.2: **[DS1]** shows **PV1 - PV 2**
2.Sub.1: **[DS1]** shows **PV2 - PV 1**
1.MUL.2: **[DS1]** shows **PV1xPV 2**
1.div.2: **[DS1]** shows **PV1÷ PV2**
2.div.1: **[DS1]** shows **PV2÷ PV1**
➢ Press ENT to enter & select

A2-10 — dPLY.2 / Pu.M2
dPLY2: Display 2 [DS2] Function
(default: **Pv.M2**);
Selectable:
Pv.M2 / **Min.M2**(/ **MAx.M2** / **RS485**
Pv.M2: Present Value of Pv.M2
Min.M2: Minimum. Hold of Pv.M2
MAx.M2: Maximum Hold of Pv.M2
RS485: Writing value to display from RS485 command
➢ Press ENT to enter & set

A2-11 — Lo.Ct.2 / 0
Lo.Ct.2: Low Cut level to show "0" for display 2 [DS2]
(default: 0);
Settable: ±19999 counts
➢ Press ENT to enter & set

A2-12 — AvG / 5
AvG: Average for display 1 [DS1] and display 2 [DS2] smooth
(default: 1 time);
Range:
1(no function)~99times
➢ Press ENT to enter & set

A2-13 — d.FiLt / 0
d.FiLt: Digital filter for display 1 [DS1] and display 2 [DS2] to reduce noise influence
(default: 0);
Selectable:
0(no function)/1~99times
➢ Press ENT to enter & set

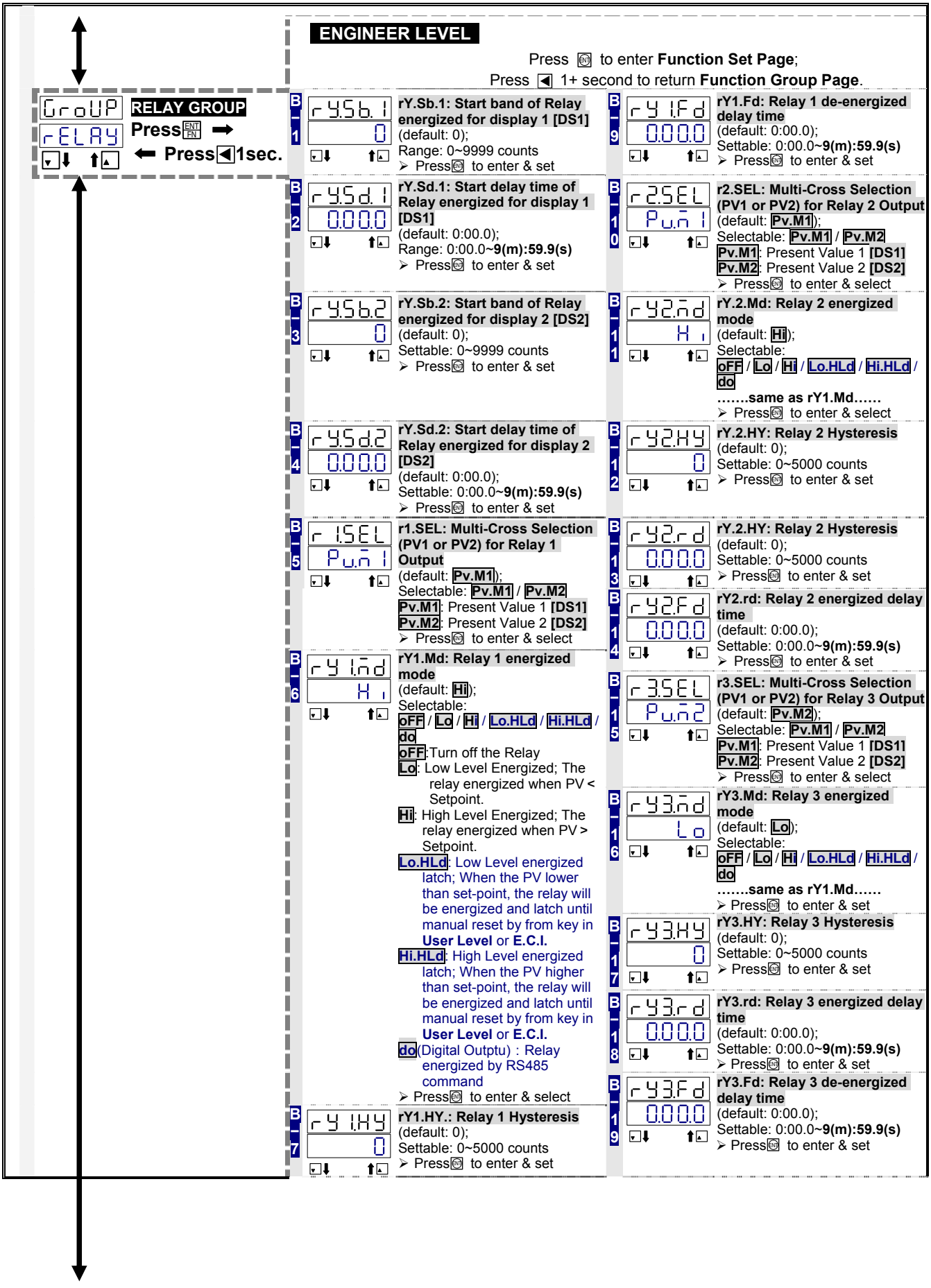
A2-14 — dn.KEY / nonE
dn.KEY: Down key function
(default: **nonE**);
選擇範圍: **nonE** / **rEL.Pv** / **Pv.HLd** / **M.rSt** / **rY.rSt**
none(None): no function
rEL.Pv: Relative PV(ΔPV)
Pv.HLd: PV hold
M.rSt: Reset for max./mini. memorize
rY.rSt:Reset for Relay Lo/Hi energized hold.
➢ Press ENT to enter & set

A2-15 — P.CodE / 0
P.CodE: Pass Code Set for enter Engineer Level
(default: 1000);
Selectable: 0000~9999
➢ Press ENT to enter & set

A2-16 — F.LoCK / nonE
F.LoCk: Function Level Lock
(default: **nonE**);
Selectable: **nonE** / **USEr** / **EnG** / **ALL**
none: **No lock**
USEr: **User Level lock**
EnG: **Engineer Level lock**
ALL: **All Level lock**
➢ Press ENT to enter & set

A2-1 — A i2.Lo / 0.00
Cycle to first page

➢ ENGINEER LEVEL --- RELAY GROUP (The group will be hidden, if the meter is without relays)



B18 — **rY1.rd: Relay 1 energized delay time**
(default: 0:00.0);
Settable: 0:00.0~**9(m):59.9(s)**
➢ Press ENT to enter & set

B20 — **r4.SEL: Multi-Cross Selection (PV1 or PV2) for Relay 4 Output**
(default: **Pv.M2**);
Selectable: **Pv.M1** / **Pv.M2**
Pv.M1: Present Value 1 **[DS1]**
Pv.M2: Present Value 2 **[DS2]**
➢ Press ENT to enter & select

Next page

Pre. Page

B21 — **rY4.Md: Relay 4 energized mode**
(default: **Lo**);
Settable:
oFF/**Lo**/**Hi**/**Lo.HLd**/**Hi.HLd**/**do**/**Go.12**/**Go.23**
Go-1.2: Go compare with SP1 & SP2; Go function with Set-Point 1 and Set-point 2. Go relay energized when the condition is **set-point 1(Hi) > reading > set-point 2(Lo)**
Go-2.3: Go compare with SP2 & SP3; Go function with Set-Point 2 and Set-point 3. Go relay energized when the condition is **set-point 2(Hi) > reading > set-point 3(Lo)**
.....same as rY1.Md.....
➢ Press ENT to enter & set

B22 — **rY4.HY: Relay 4 Hysteresis**
(default: 0);
Settable: 0~5000 counts
➢ Press ENT to enter & set

B23 — **rY4.rd: Relay 4 energized delay time**
(default: 0:00.0);
Settable: 0:00.0~**9(m):59.9(s)**
➢ Press ENT to enter & set

B24 — **rY4.Fd: Relay 4 de-energized delay time**
(default: 0:00.0);
Settable: 0:00.0~**9(m):59.9(s)**
➢ Press ENT to enter & set

B11 — **Cycle to first page**

➢ ENGINEER LEVEL --- ANALOGUE OUTOUT and RS485 GROUP

(The group will be hidden, if the meter has no analogue output or RS485

ENGINEER LEVEL

Press ENT to enter **Function Set Page**;
Press ◀ 1+ second to return **Function Group Page**.

ANALOGUE OUTPUT GROUP
Press ENT ➡
⬅ Press ◀ 1sec.

D11 — **Ao.SEL: Multi-Cross Selection of Analogue Output**
(default: **Pv.M1**);
Settable: **Pv.M1** / **Pv.M2**
➢ Press ENT to enter & select

D12 — **Ao.Typ: Analogue Output type selection**
(default: **A.4~20**);
Settable:
v.0-10 (0~10V) / **v.0~5**(0~5V) / **v.1-5**(1~5V) / **A.0-20**(0~20mA) / **A.4-20**(4~20mA) / **A.0-10**(0-10mA)
➢ Press ENT to enter & set

D13 — **Ao.LS: Analogue Output Low to relative Low Scale**
(default: according to Lo.SC);
Settable: -19999~19999
➢ Press ENT to enter & set

D14 — **Ao.HS: Analogue Output High relative High Scale**
(default: according to Hi.SC);
Settable: -19999~29999
➢ Press ENT to enter & set

D15 — **Ao.Zro: Fine Zero Adjustment for Analog Low Output**
(default: 0);
Settable: -19999~29999
➢ Press ENT to enter & set

D16 — **Ao.SPn: Fine Span Adjustment for Analog High Output**
(default: 0);
Settable: -19999~29999
➢ Press ENT to enter & set

D17 — **Z.S.CLr: Clear for Zero & Span Fine adjustment**
(default: **nonE**);
Settable: **nonE** / **Ao.Zro** / **Ao.SPn** / **both**
nonE: No clear
Ao.Zro: Clear Zero Adjustment
Ao.SPn: Clear Span Adjustment
both: Clear Zero and Span Adjustment
➢ Press ENT to enter & set

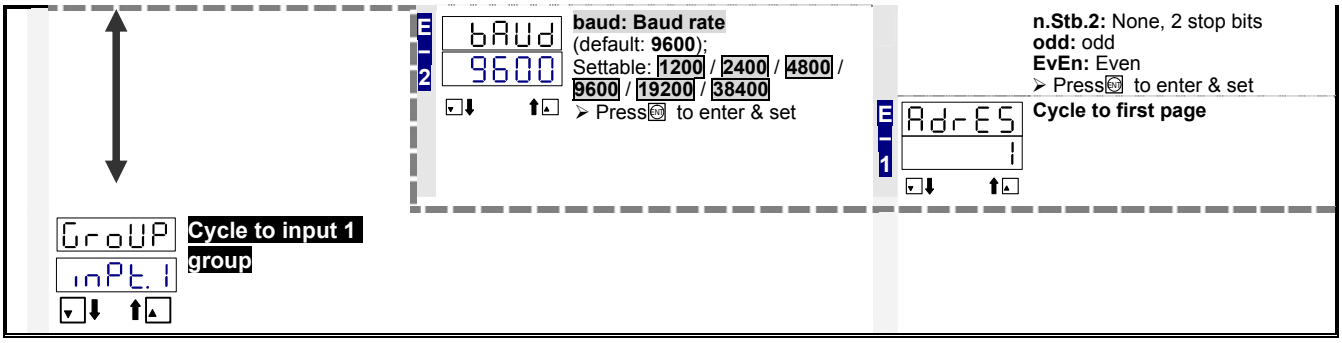
D18 — **Ao.LMt: Analog Output High Limit**
(default: 110.00);
Settable: -0.00~110.00% of FS
➢ Press ENT to enter & set

D11 — **Cycle to first page**

RS485 GROUP
Press ENT ➡
⬅ Press ◀ 1sec.

E11 — **Adres: Device number of the meter**
(default: 1);
Settable: 1~255
➢ Press ENT to enter & set

E13 — **PritY: Parity**
(default: **n.Stb.2**);
Settable:
n.Stb.1 / **n.Stb.2** / **odd** / **EvEn**
n.Stb.1: None, 1 stop bit


GroUP
inPt.1
Cycle to input 1 group
E 1 2
bAUd
9600
baud: Baud rate
(default: 9600);
Settable: 1200 / 2400 / 4800 / 9600 / 19200 / 38400
➢ Press to enter & set
E 1 1
AdrES
1
Cycle to first page
n.Stb.2: None, 2 stop bits
odd: odd
EvEn: Even
➢ Press to enter & set