



PROCOM®

ACE-PLUS-IL Multifunction Panel Meter



[Installation Guide](#)

1. Introduction

ACE IL meters are compact digital current meter, which logs maximum currents in all phases equipped with customized 128X64 LCD display. Four navigator keys simplifies Display & configuration of meter. ACE are available with accuracy class of 1.0 IEC62053-21/(Optional 0.5,0.2 IEC-62053-22) Communication on RS232.

2. Features

- Simultaneous Display of Measured Quantity & Parameter
- Logging Function enables user to have record of maximum current in 2 levels at particular instant time.
- Alarm indication for zero and set user maximum current.
- Password protection for user programmable parameters
- Communication on RS-232
- Meter / Wiring configuration is Star connection.
- Accuracy Class1.0 IEC62053-21/(Optional0.5;0.2IEC62053-22)
- Selectable auto & manual scroll of display

3. Current Logging

- RTC based current recording.
- Two current recording values for R,Y,B,N are logged in descending order.
- Current recording values are saved respective of their time and date.
- There is provision of changing current period from 5 min to 999 min.
- User can reset individual currents or all currents at a time.
- User can set maximum Alarm current.

4. Specification

Accuracy	:Class1.0IEC62053-21/(Optional0.5;0.2IEC62053-22)
Input Voltage	:Vr,Vy,Vb,Vn
Input Voltage Range	:18-520V (L-L) / 10V-300V (L-N)
Isolation Voltage	:2000V
Input Current	:Ir,Iy,lb
Input Current	:50mA-6A(Accuracy range)
Current with stand	:10Acontinuous,50Afor1Second
InputFrequency	:40 to 70Hz
AuxiliarySupply	:35-300VAC/DC
Auxiliarysupplyburden	:<4VA
Display	:LCD (128X64)
DisplayScrolling	:Automatic/Manual
Communication	:Comm. on RS-232
CT Primary setting	:1.0A to 999.9 kA
CT Secondary setting	:1.00A to 99.99A
PT Primary setting	:50V to 999kV
PT Secondary setting	:50V to 999 V

5. Auxiliary Supply :

SMPS Supply with input range 35-300VAC/DC. Burden on auxiliary supply is less than 4VA.

6. PT Supply:

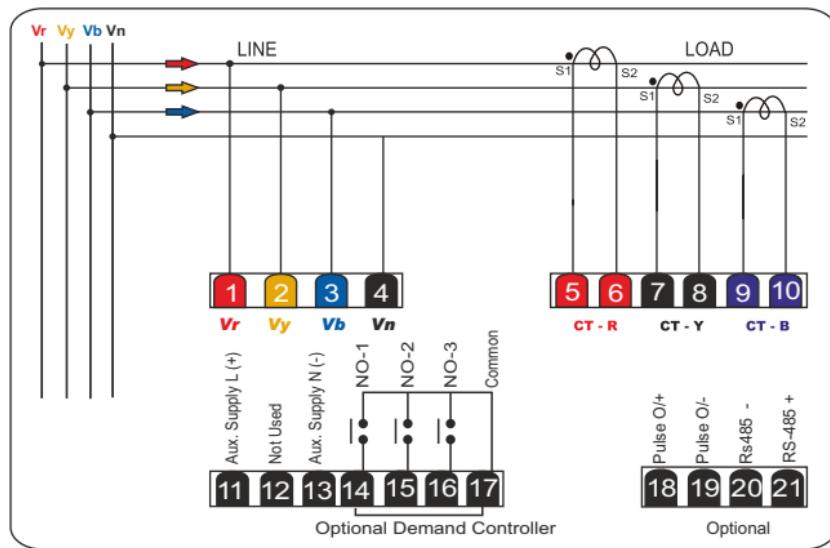
ACE IL can withstand maximum voltage of upto 1000V. Meter is configured for 3P-4Wire connection. Maximum Burden on PT is Less than 0.1VA.

7. CT Connection:

Nominal Current of ACE Meter is 6 Amp. Maximum Continuous Current is 10Amp & Current with stand is 50A for 1 Second. Burden on ct less than 0.2VA

8. Wiring Diagrams

3-Phase 4-wire connection



09. Key Functions

KEY	In EDIT Mode	In Measurement Mode
 Inrement	Increment the value of selected parameters.	Long push (for 3sec approx for Scroll ON/OFF)
 Decrement	Decrement the value of selected parameters.	-----
 Forward	Scrolling to the next parameter in EDIT mode	Scrolling between different measurements parameters.
 Backward	-----	Scrolling between different measurements parameters and move cursor position in parameter set mode.

10. Meter Measurement Scrolling :

Display can be set as auto scroll/Manual scroll. Scrolling mode can be changed from auto to manual & vice versa by long press (for 3 sec) of increment key.

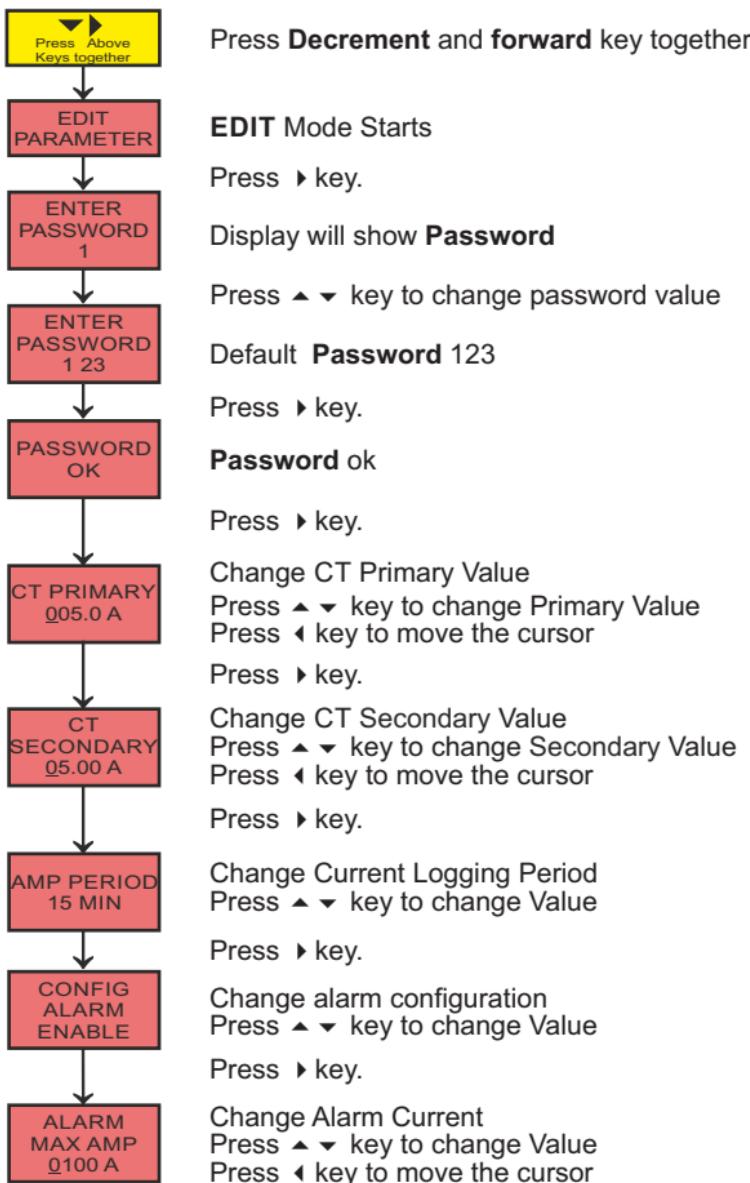
In auto scroll the measurement display changes to next page automatically while in manual mode (scroll) measurement page can be selected by pressing forward & backward keys.

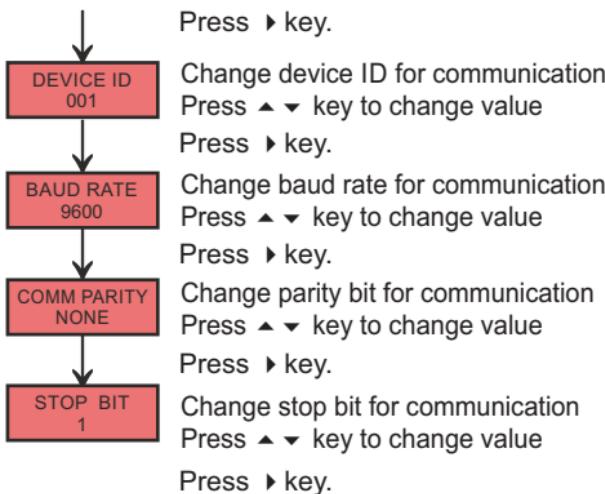
11.0 Edit Mode Details

Display	Description	Range
CT PRIMARY	CTPrimaryValue	000.1-999.9 A/KA
CT SECONDARY	CTSecondaryValue	00.01-99.99 A
AMP PERIOD	Current Logging Period	5 - 999 minutes
CONFIG ALARM	Configure Alarm	Enable/Disable
ALARM MAX AMP	Max Current	1 – 9999 A/KA
DEVICE ID	Device Identification For Communication	1-247
BAUD RATE	Communication baud rate	1200,2400,4800,9600,19200
COMM PARITY	Communication parity bit	Even,odd, None
STOP BIT	Stop Bit for communication	1-2

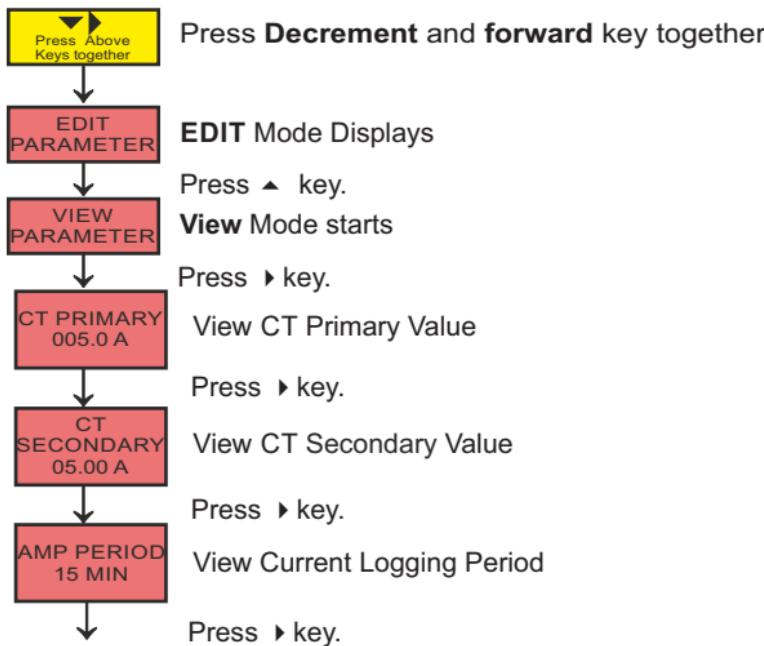
12 . Setting/Configuration Modes :

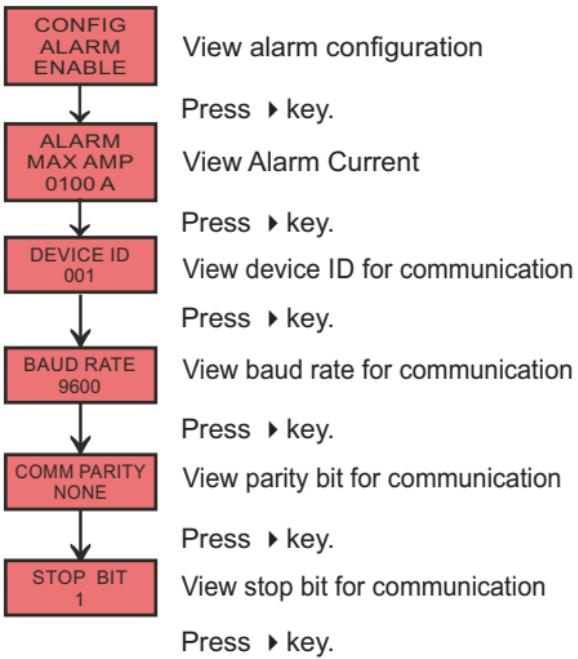
12.1 EDIT Mode : Parameter values can be changed in 'EDIT' mode, 'EDIT' mode is password protected.



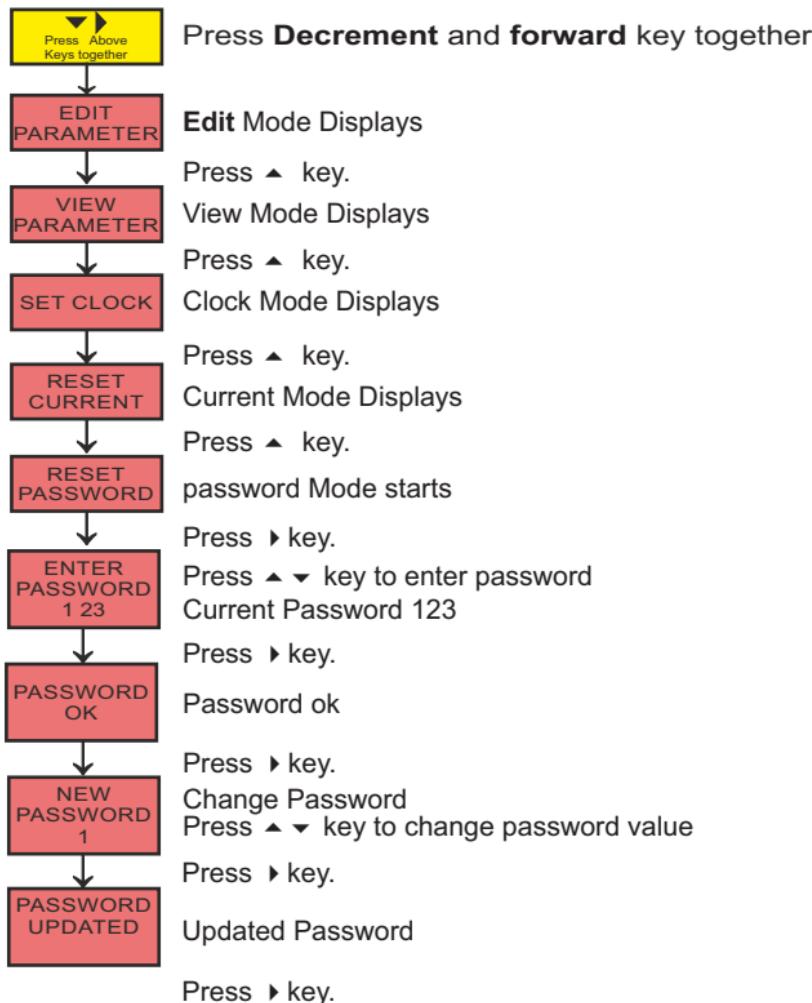


12.2 View Mode: User can view all set values in this mode without entering password Change of values is not permitted in this mode.



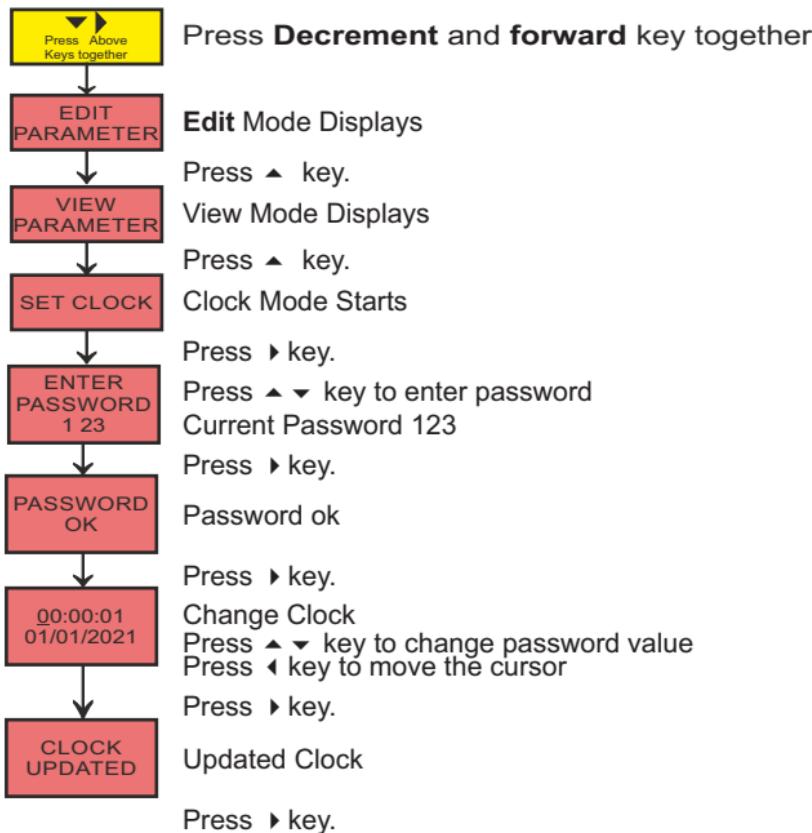


12.3 RST Password :

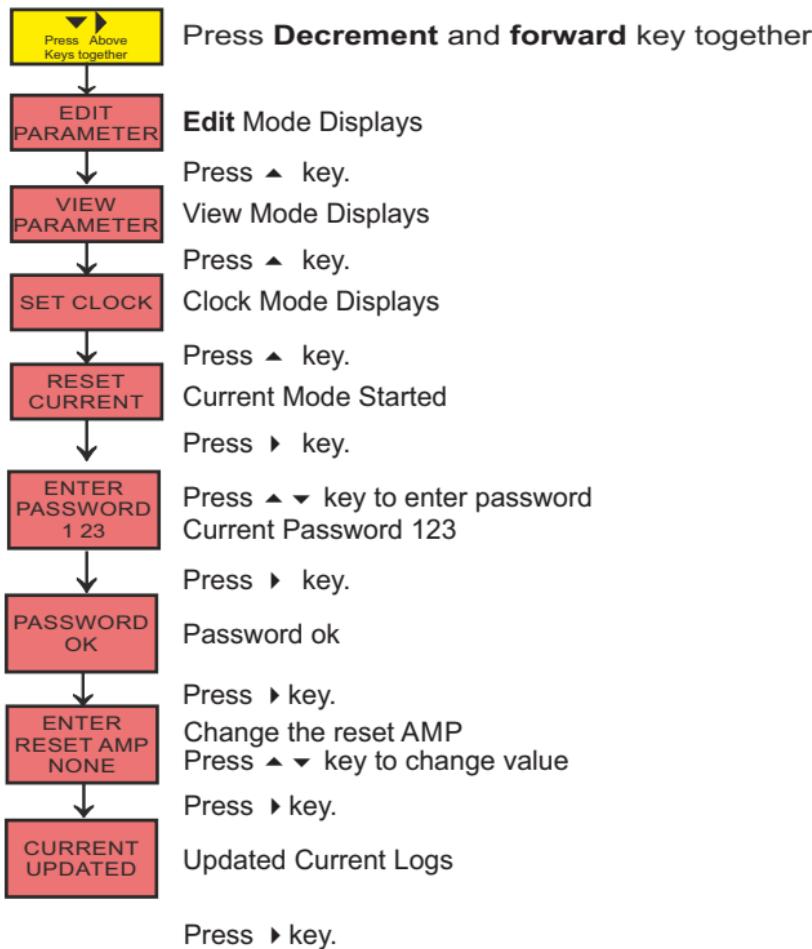


New password can be programmed in this mode. Once the password is changed, it is not possible to retrieve the old password, hence it is recommended to have a record of newpassword.

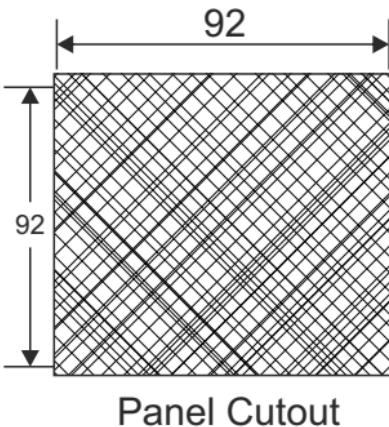
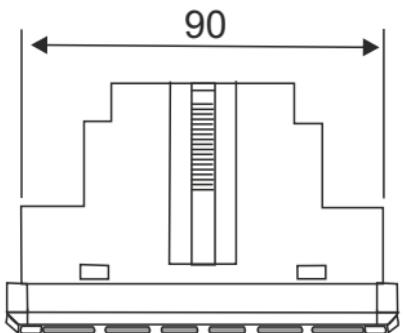
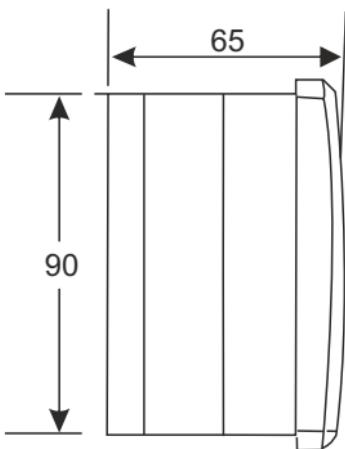
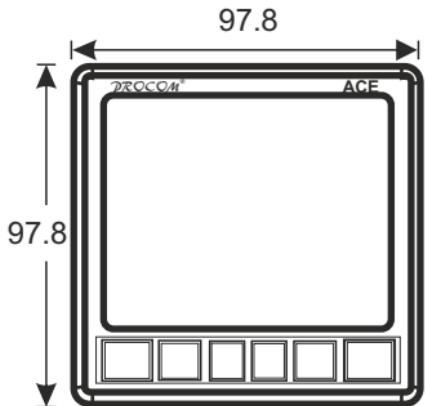
12.4 Set Clock :



12.6 Reset Current :



13. Dimensional Details



All dimensions are in mm.





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