

# ePrecision S3001

Digital Energy Meter (LED), with Volt & Amp display



### Description

With modular design, ePrecision S3001 has been applied in monitoring the electrical parameters in single phase, 3 ph 3/4 wire electrical system.

### Main features

- Measure and analyze real time data, such as U, I, kWh, etc.
- Max I data record
- RS-485 communication port (optional)
- Active energy pulse output (optional)



#### Measured Parameters

No.	Variables	Contents	Direction	Display(Max.)	Accuracy
1	Phase Voltage	$U_a, U_b, U_c$		9999KV	Class 0.2
2	Line Voltage	$U_{ab}, U_{bc}, U_{ac}$		9999KV	Class 0.2
3	Current	$I_a, I_b, I_c$		9999KA	Class 0.2
4	Active Energy	MWh	Directional	9999999.99MWh	Class 1.0

#### Technical Specification

##### Signal Input

**AC Current**  
 0~5A  
 Power consumption:  $\geq 0.2VA$  per phase  
 Overload capacity: 2X continuous rated value,  
 100A/1S non continuously  
 Measurement scope: 0.5%~120%

**AC Voltage**  
 Direct input Voltage:  $\geq 690V$   
 Overload capacity: 2X continuous rated value,  
 2500V/1S non continuously  
 Measurement scope: 3%~120%  
 Allowed frequency scope: 45~65Hz

##### Signal Output

**Digital output (communication)**  
 Output channel: 1  
 Type: RS-485, isolated  
 Protocol: Modbus RTU  
 Baud rate: 2400, 4800, 9600, 19200, 38400bps

**Pulse Output**  
 Output channels: 1 channel ( active energy )

##### Other parameters

Operation temperature:  $-20^{\circ}C \sim +60^{\circ}C$   
 Storage temperature:  $-40^{\circ}C \sim +85^{\circ}C$   
 Operation humidity: 5~95%RH  
 Temp. drifting rate:  $< 100ppm/^{\circ}C$   
 Total power consumption:  $< 5W$

Auxiliary power supply: 24~80VAC/DC, 85~265VAC/DC  
 Voltage resistance(Input against Output); 2500V/1min.  
 Material of Housing: Flammability acc. to UL 94V0  
 Dimensional Size: 96mmX96mmX86mm  
 Installation Size: 91mmX91mm