WASION

Libra3

ANSI Socket Smart Energy Meter

Designed for residential and industrial energy management

Providing flexible solution for your AMI initiatives

www.wasion.com

Protection degree	IP54
Breaker	Optional
Lifetime	Bi-stable relay 10000 cycles at I_{max}PF=1 and PF=0.5L
Performance	UC3
Maximum switching Voltage	250VAC
Maximum switching current	100/200A for 1Phase and 2Phase. 100A for 3 Phase
Maximum switching power	30kVA
Lifetime	≧ 15 years

Main Functionalities

Measurement

- 4 quadrant measurement
- Instantaneous Vrms, Irma, Frequency,Power Factory.
- +Kwh,-Kwh, 4 quadrant Kvarh.
- Support Demand. Demand Source can be programmed.

RTC

- Clock accuracy (daily deviation): ≤ 0.5s/day
- Temperature compensation
-

Tariff

- Up to 4 Tier, 4 Season, 4 Day-Type
- Up to 104 Tou Schedule Setting
- Up to 5 billing & 4 demand measures per TOU period
- Support DST, Self Read, Demand Reset

Battery backup

- Flexible backup power for RTC, including replaceable
- Battery life 10 year (Typical value).

Load control

- Remote control command support
- Over current/voltage control support
- Power limit support

Firmware upgrading

- The firmware can be upgraded via local interface and WAN interface(OTA).
- Roll-back last version image support

Load profile

- Energy profiles（Typical value : 5min, 16 channels, capacity is 120days)
- 1~60 minutes interval time is programmable.
- Each channels of data source is programmable.
- Output to *.csv format file by software. Easy to make graph.

Power quality monitor

- Under voltage / Over voltage / Over Current
- Voltage imbalance
- Power failure monitor

Event record

- Tamper detect (Meter remove/cover open, current reverse etc.)
- Failure detect (Memory error, relay error, battery low voltage, clock invalid etc.)
- Power quality event (Under voltage / Over voltage / Over current/ Voltage imbalance, Power failure, etc.)
- Security event (Parameters change, clock adjust, etc.)

Relay Control

- Disconnect or reconnect control by remote system or local optical

WAN Communication

- Plug and playmodule to support kinds of communication technology
- RPMA/2G/3G/4G/PLC/RF
- Protocol: ANSIC12.18/ANSIC12.19/Modbus-RTU

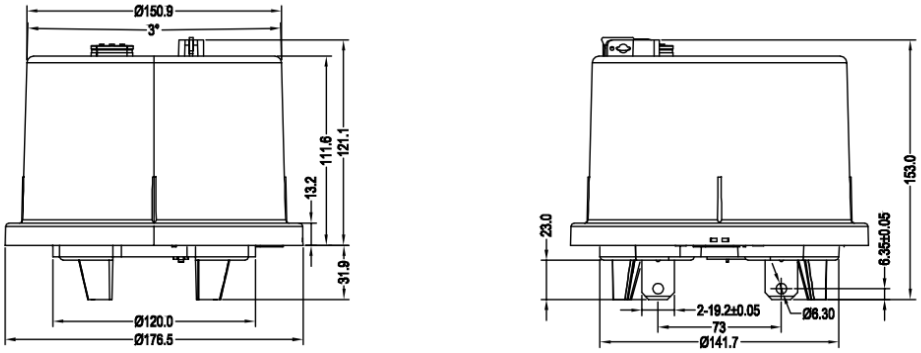
Optical port

- Comply with ANSIC12.18 standard
- Protocol: ANSIC12.18

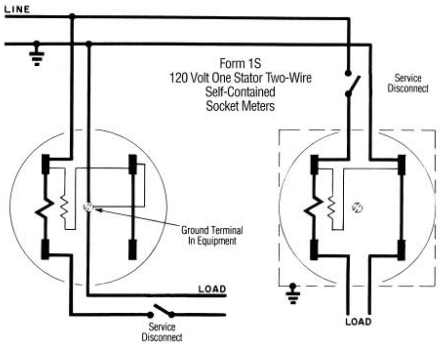
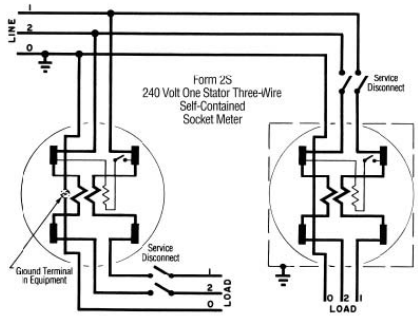
Security(LLS or HLS)

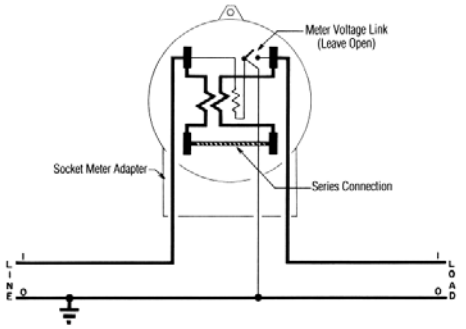
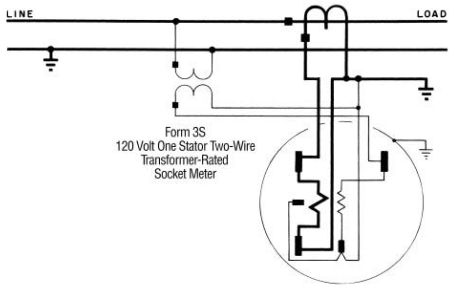
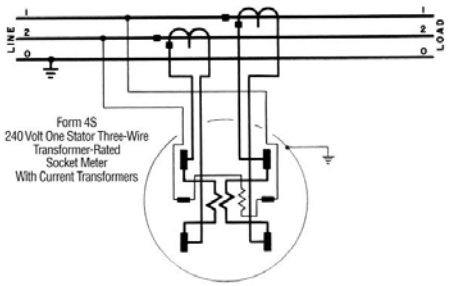
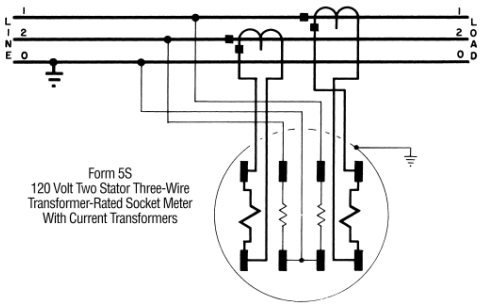
- LLS support 3 level passwords for local and remote communication
- HLS supportauthenticationand encryption for local and remote communication(with ANSIC12.22 module in side)

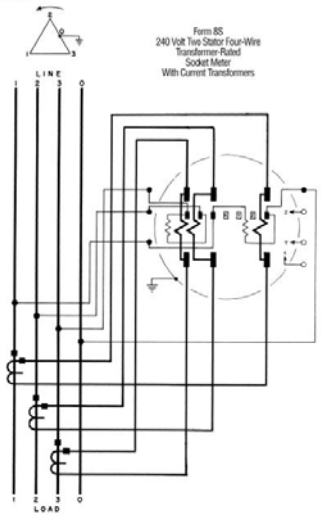
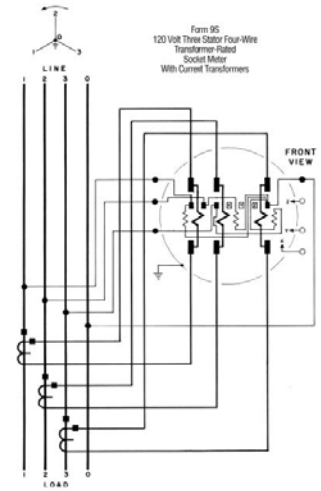
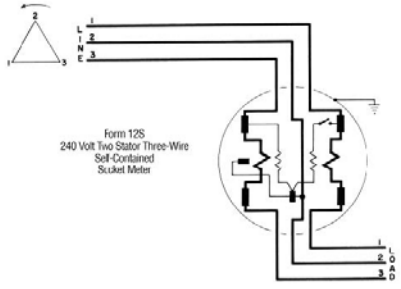
➢ Meter Installation Dimensions

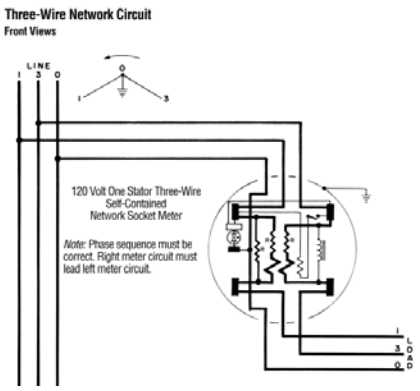
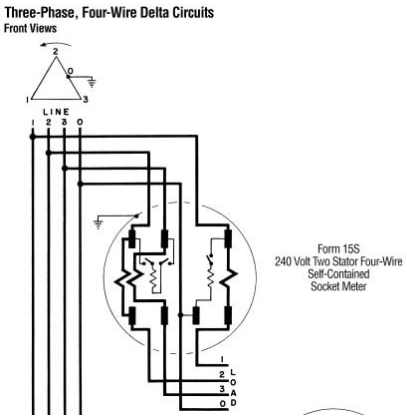
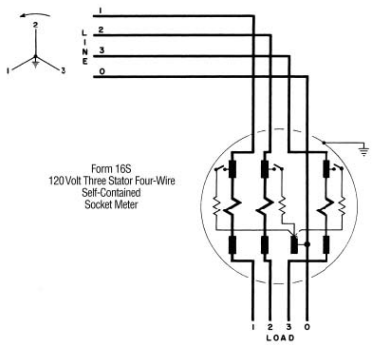


➢ Meter Wiring

1S	
2S	**Single-Phase, Three-Wire Circuits** **Front Views** 

2S	Form 2S 240 Volt One Stator Three-Wire Self-Contained Socket Meter Connected to Single-Phase Two-Wire 120 Volt Service Using an "A" Base Socket Meter Adapter 
3S	**Single-Phase, Two-Wire Circuits** **Front Views**  Form 3S 120 Volt One Stator Two-Wire Transformer-Rated Socket Meter
4S	**Single-Phase, Three-Wire Circuits** **Front Views**  Form 4S 240 Volt One Stator Three-Wire Transformer-Rated Socket Meter With Current Transformers
5S	 Form 5S 120 Volt Two Stator Three-Wire Transformer-Rated Socket Meter With Current Transformers

8S	**Three-Phase, Four-Wire Delta Circuits** Front Views 
9S	**Three-Phase, Four-Wire Wye Circuits** Front View  Figure 12-40. Current Transformers.
12S	**Three-Phase, Three-Wire Circuits** Front Views 

12S	
15S	
16S	

➢ Certificates

MET CERTIFIED