Premier 551 is a reliable, new-generation, three-phase transformeroperated smart electricity meter. It is equipped with a bi-directional communication unit to interact with the head-end system (HES) and plays a vital role in cost management.

It supports 4G communication that ensures network redundancy by having GPRS as a fall-back option to suppress the black spots in the AMI network. It works as a common asset for import-export and forwarded mode. The firmware can be upgraded remotely without affecting the usual meter operations.

It provides billing energies, history values, interval data and event alerts to the utility for billing cycle optimisation and effective network planning.

### Application

- Distribution transformer metering
- MV feeder and boundary metering
- Renewable farms / Net metering

#### **Benefits**

- Reduced operational cost (low cost of ownership)
- Improves billing efficiency by providing periodic remote data
- On-demand data collection
- Network parameters monitoring helps improve network asset planning
- Better utilisation of field crew by having power-down information of specific node point
- Compatible with import-export or forwarded-mode metering





#### Features

- Four-quadrant energy measurement
- Four digital inputs
- Intuitive, legible and user-friendly display
- Back-end alerts and event logging on tampers
- Actuators for display access
- Meter data collection through an optical port for no-WAN nodes
- Analysis of interval data
- Battery-mode reading in the absence of mains supply
- Parameters in line with IS15959 part 3
- Supply quality parameters

## Highlights

- Reliable bi-directional communication unit
- Data delivery through smart push architecture
- Extensive firmware features to serve multiple applications of utility
- Robust security architecture



# Premier 551

# Technical specifications

<b>Electrical</b> Connection type Wiring configuration Rated voltage and variation	CT, CT / VT operated 3P4W for LT and 3P3W, 3P4W for HT LT: 240V P-N, -30% to +20% of Vref	
-	HT: 63.5 P-N /110V P-P, ±20% of Vref	
Current range Accuracy	-/5(10)A for LT and -/5(10)A or -/1(2)A for HT Class 0.5s for LT and Class 0.2s / Class 0.5s for HT	
Frequency	$50 \text{ Hz} \pm 5\%$	
Burden	As per IS16444 Part 2	
Compliance		
Standards	IS16444 Part 2, IS15959 Part 3	
Mechanical		
Dimension H x W x D (approx.)	285 mm x 179 mm x 70 mm, Tolerance ±5mm	
Weight (approx.) Enclosure	1.35 ± 0.2 Kg Engineering plastic	
Sealing	Break to open enclosure, provision of sealing on meter cover,	
	terminal cover, communication module cover and optical port	
Environmental		
Ingress protection	IP 54	
Temperature	0°C to +55°C (operating) and -25°C to +70°C (storage)	
Humidity	95%, non-condensing	
Features		
Energy channels	As per category D3 and D4 of IS15959 part 3	
Digital inputs Maximum demand	Four digital inputs As per category D3 and D4 of IS15959 part 3	
Tariff rate registers	As per category D3 and D4 of IS15959 part 3	
Load survey	Up to 120 days load profile for 15 parameters (configurable)	
	with 30-minute integration period	
Communication		
Communication options	Optical port for local and WAN (cellular) communication	
Communication interface	for remote data acquisition	
Communication interface SIM Card	4G fallback to GPRS 4G-enabled, nano SIM card	
Antenna	Built-in antenna, and optional high gain extended antenna	
Supported frequencies	850, 900, 1800, 2100 MHz	

Africa sales\_africa@securemeters.com Australia sales\_australia@securemeters.com Europe sales\_europe@securemeters.com

India

sales\_india@securemeters.com

South East Asia sales\_sea@securemeters.com Middle East sales\_middleeast@securemeters.com **UK** sales\_uk@securemeters.com

www.securemeters.com

