

## Smart, Scalable, and Efficient

**Multifunction | Single phase and Three Phase Prepaid Meter |  
Over voltage/current cut off for protection | Secure Data  
Communication | Wifi & GSM (4G)**

Elexi Power Gateway is an advanced IoT-enabled smart energy metering solution by Nwaresoft. It offers precise active/reactive energy measurement, two way communication, tamper detection, remote firmware updates, cloud monitoring & alerts.

# Smart Features. Tangible Benefits.

## Features

**Pay-as-You-Go:** Enables prepaid energy consumption for better budget control.

**Overload Protection:** Automatic tripping for EB and DG to prevent excess load damage.

**Overvoltage Protection:** Safeguards electrical systems from voltage spikes.

**Dual Source Measurement:** Supports up to 80A whole current / CT operated (BIS compliant up to 60A).

**Single & Three-Phase Options:** Available for diverse energy requirements.

**Comprehensive Monitoring:** Displays balance, VLL, VLN, A, Hz, W, PF, VA, kWh (EB & DG), gas, and water usage.

**TOU/TOD Profiling:** Allows time-based energy consumption analysis for optimized billing.

**Anti-Tamper Protection:** Built-in security features comply with Indian standards.

**Transparent Energy Insights:** Provides a clear view of usage patterns and tariff rates.

## Benefits

**Eliminates Billing Disputes** – No estimated bills, only pay for actual usage.

**Enhances Revenue Collection** – Utilities receive payments upfront, reducing losses.

**Empowers Consumers** – Provides transparency and control over energy usage.

**Reduces Operational Costs** – No manual meter readings or paper bills required.

**Supports Renewable Integration** – Works with solar, wind, and hybrid energy systems.

**Real-Time Usage Monitoring** – Track and manage energy consumption instantly.

**Faster Fault Detection** – Quickly identifies outages or meter issues.

**Promotes Energy Efficiency** – Encourages users to optimize consumption and reduce waste.

**Flexible Tariff Options** – Enables time-of-use pricing for cheaper rates at off-peak hours.

**Data-Driven Insights** – Provides historical usage patterns for better planning and budgeting

# Every Detail You Need to Know

Parameter	Details
<b>Accuracy</b>	Class 1.0 (default) as per IS 13779/15884, Class 0.5 as per IS14697 (Optional).
<b>Sensing/ Measurement</b>	True RMS, 1 Sec update time. 2 Quadrant Power & Energy
<b>Input Voltage</b>	<ul style="list-style-type: none"> <li>• 4 Voltage inputs (V1, V2, V3, VN) Programmable 110 or 415V LL Nominal (Range 80 to 550V LL).</li> <li>• Primary programmable up to 999kV. Burden: 10VA Max</li> </ul>
<b>Input Frequency</b>	45 - 65Hz
<b>Input Current</b>	<ul style="list-style-type: none"> <li>• Current inputs (A1, A2, A3) whole current 10/60A or CT operated 5A.</li> <li>• Overload: 3 times for 3s.</li> <li>• Burden: 0.5VA Max. per phase.</li> </ul>
<b>Whole Current CT Operated</b>	5/30A or 10/60A or 20/80A/5A
<b>CT PT Ratio Max</b>	2000 MVA Programmable for CT operated.
<b>Display Resolution</b>	1 row, 6 Digits, (Integrated 6 Digits) 10mm.
<b>Communication</b>	RS485, Ethernet, GPRS, RF & LoRa
<b>Gas / Water Input Option</b>	<ul style="list-style-type: none"> <li>• Factory configurable Digital input with Maximum Frequency 3 Hz for upto 4 channel.</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• 3 phase: Unpacked - 1650 gms, Packed - 1850 gms</li> <li>• Single phase: Unpacked - 670 gms, Packed - 750 gms</li> </ul>
<b>Torque</b>	2 N-m
<b>Wire Gauge</b>	6 AWG

# Versatile Use Cases

## Applications

**Prepaid Metering Solution:** Enables hassle-free electricity payments from anywhere, eliminating queues and bill-related inconveniences while ensuring better customer service.

**Shopping Malls & Commercial Complexes:** Efficient energy management for high-consumption areas.

**Gated Residential Societies & Apartments:** Smart metering for fair and transparent energy usage.

**Industries & Government Sectors:** Reliable and scalable energy monitoring for large-scale operations.

## Mobile + Web. One Powerful Platform.

## Unified Experience Across Devices

**Secure Access:** OTP-based authentication ensures safety.

**Real-Time Monitoring:** View live data from your meters anytime.

**Multi-Meter Support:** Manage multiple energy meters under a single account.

**Easy Data Sharing:** Share meter data via a simple link.

**Seamless Integration:** Public API available for third-party applications.

**Cross-Platform Availability:** Download on iOS App Store & Android Play Store.

**Cloud Storage:** Meter data securely stored on the server.

**Remote Control:** Engage or disengage power to connected loads.

**Advanced Analytics:** Track energy and power consumption for each meter.

**Custom Tariff Settings:** Define personalized tariff rates per energy meter.

# Value-Added Benefits

## Smart Switch for Home Automation

Upgrade your home with our Smart Switch, designed for seamless control and convenience. Operate lights, fans, and appliances from anywhere using your smartphone or voice assistants like Alexa or Google Home. Enjoy features like scheduling, energy monitoring, and scene customization to create the perfect ambiance. Easy to install, stylish in design, and built for durability—this is the smarter way to power your home.



Smart Switch – Control your lights and appliances anytime, anywhere. Voice-enabled, energy-saving, and easy to install for a truly smart home.

# Motion Sensor Wiring

## Smart Switch for Home Automation

### Method 1 – Single Switch, Single Lamp

One induction switch controls the wiring of a single lamp. Simple and ideal for basic setups.

### Method 2 – Sensor + Traditional Switch Combo

Combines a motion sensor switch with a manual switch for flexible control. The lamp works in induction mode when the manual switch is off, and stays on continuously when the switch is on.

### Method 3 – Single Switch, Multiple Lamps

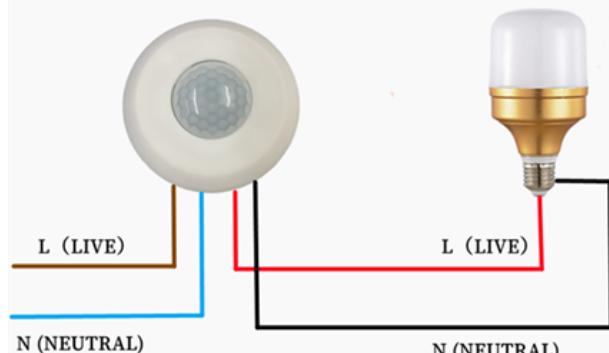
One induction switch controls multiple lamps simultaneously, perfect for larger rooms or areas needing synchronized lighting.

### Method 4 – Multiple Switches, Single Lamp

Two or more induction switches control a single lamp, allowing detection from multiple directions or entry points.

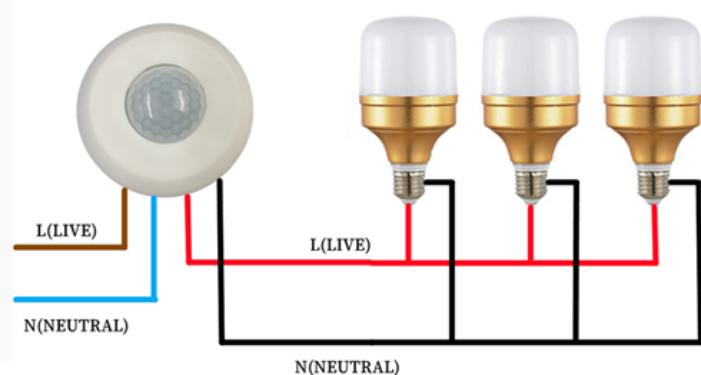
Method 1

A switch controls the wiring of a lamp



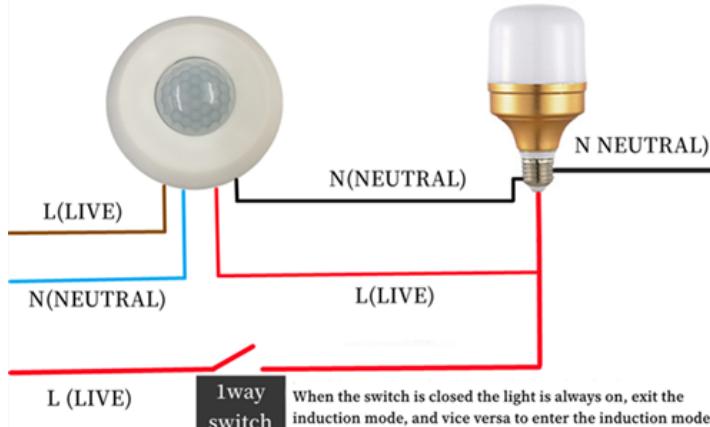
Method 3

Wiring method for single induction switch to control multiple lamps



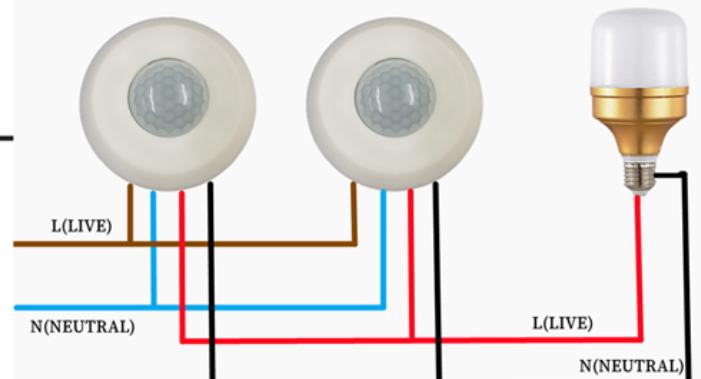
Method 2

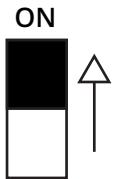
Sensor switch + traditional switch combination control connection method



Method 4

Wiring method for multiple induction switches to control a single fixture



Functional Requirement	Diagrams	Explanation																																																																																										
Terminal Block Definition		<p>Terminal "1" — L (Live Wire)</p> <p>Terminal "2" — N (Neutral Wire)</p> <p>Terminal "3" — N (Output Neutral Wire)</p> <p>Terminal "4" — A (Output Live Wire)</p>																																																																																										
DIP Switch Definition		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Working Times</th> <th colspan="3">Photosensitive Control</th> <th colspan="3">Detection Sensitivity</th> </tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>1</td> <td>Time</td> <td>4</td> <td>5</td> <td>Lux</td> <td>5</td> <td>Per</td> </tr> <tr> <td>-</td><td>-</td><td>-</td> <td>5s</td> <td>-</td> <td>-</td> <td>dis</td> <td>-</td> <td>100%</td> </tr> <tr> <td>-</td><td>-</td><td>On</td> <td>30s</td> <td>-</td> <td>On</td> <td>2</td> <td>On</td> <td>50%</td> </tr> <tr> <td>-</td><td>On</td><td>-</td> <td>1 min</td> <td>On</td> <td>-</td> <td>20</td> <td></td> <td></td> </tr> <tr> <td>On</td><td></td><td></td> <td>3 min</td> <td>On</td> <td>On</td> <td>60</td> <td></td> <td></td> </tr> <tr> <td></td><td>On</td><td>On</td> <td>5 min</td> <td></td><td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>On</td><td></td><td>On</td> <td>10 min</td> <td></td><td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>On</td><td>On</td><td></td> <td>20 min</td> <td></td><td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>On</td><td>On</td><td>On</td> <td>30 min</td> <td></td><td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="text-align: right; margin-top: 10px;"> <span>ON</span>  </div>	Working Times			Photosensitive Control			Detection Sensitivity			1	1	1	Time	4	5	Lux	5	Per	-	-	-	5s	-	-	dis	-	100%	-	-	On	30s	-	On	2	On	50%	-	On	-	1 min	On	-	20			On			3 min	On	On	60				On	On	5 min						On		On	10 min						On	On		20 min						On	On	On	30 min					
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Detection Distance		<p>Wall Hanging (Height 2 m) <math>\geq 8</math> m</p> <p>Flush Mounted (Height 2.5 m) Radius <math>\geq 3.5</math> m</p>																																																																																										
Detection Angle		<p>Wall Hanging <math>120^\circ</math></p> <p>Flush Mounted <math>360^\circ</math></p>																																																																																										
Input Voltage	Voltage (V)	85–265 V																																																																																										
Load Power	Power (W)	$< 1000$ W																																																																																										
Accreditation	EU Certification	CE																																																																																										

