

MODEL DCN-100

Features

- **Low Setup Cost:** Compared to smart meters, the DCN-100 Smart Socket offers significantly lower equipment and installation costs.
- **Remote Switch and Memory Function:** Supports remote power switching and automatically records switch states during unexpected power outages.
- **Plug-and-Play with Wireless Monitoring:** Features a plug-and-play design for high flexibility, allowing deployment without halting production lines.
- **EMC Electromagnetic Compatibility:** Unlike other smart sockets on the market that overlook electromagnetic interference (EMI) and tolerance handling, the DCN-100 integrates advanced EMI, ESD, and EFT filtering technologies, significantly improving product stability.
- **Non-Intrusive Installation:** Enables non-intrusive installation, utilizing Wi-Fi to collect energy consumption data and monitor both energy use and device health.
- **Ease of Management:** Tracks the energy usage of each device and workstation based on operation time and consumption levels.
- **Real-Time Monitoring of Energy Consumption and Carbon Emissions:** Accurately collects real-time energy data for various device states, such as operation and standby. Integrates with the "Carbon Footprint Management Platform" to provide precise carbon emission calculations.
- **Automatic Alerts for Device Anomalies:** Monitors rated power consumption and triggers automatic alerts and remote shutdowns when abnormalities are detected.
- **Schedule Management:** Integrates with Sajeet MES to enable automated schedule management for devices. Additionally, provides MES-recommended schedules based on work orders, production plans, and device usage conditions.
- **Accurate Product-Level Carbon Footprint Calculation:** Combines data from the smart socket with MES operation time information to precisely calculate the carbon footprint of each workstation, product, or even individual product serial numbers in real time.
- **Achieve ESG Goals:** Facilitates accurate, fast, and efficient collection of production energy consumption data for effective carbon footprint calculation and analysis, helping companies meet carbon reduction targets.



DCN-100 creates intelligent energy-saving workstation.

Chroma



DCN-100 Smart Socket & Energy Management Platform

DCN-100 Smart Socket: Low Cost, High Stability

The DCN-100 Smart Socket offers exceptional cost-effectiveness and high stability. Its equipment and installation costs are significantly lower than traditional smart meters, making it suitable for various application scenarios. It supports remote switch operation and automatically records switch status during unexpected power outages, ensuring quick system recovery. With a plug-and-play design, it can be flexibly installed and used without downtime. Additionally, it incorporates advanced EMI, ESD, and EFT filtering technologies, effectively addressing electromagnetic interference issues and greatly enhancing device stability, providing peace of mind for energy management.

Real-Time Energy Consumption Analysis and Device Health Monitoring

By collecting energy consumption data via Wi-Fi, the DCN-100 enables real-time analysis of energy usage and device health. Based on usage time and energy consumption, it can predict when devices require maintenance and assess potential risks of equipment failure or downtime. In the event of abnormal power consumption, users can receive real-time alert notifications on their mobile devices and remotely control the power of malfunctioning equipment.

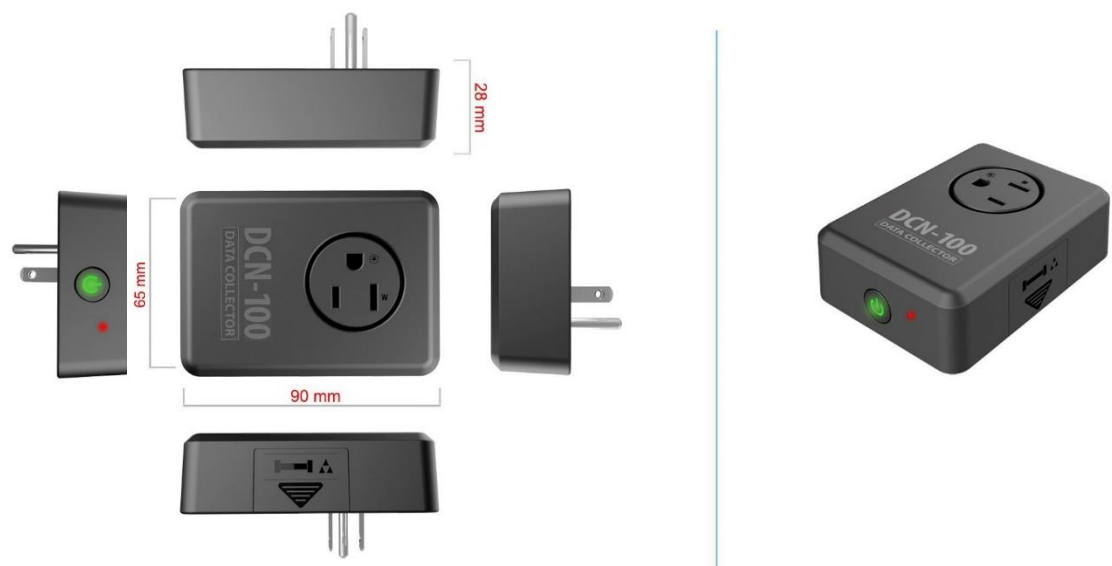
DCN-100 Smart Socket - Effortless Energy Saving for Factories, Offices, Schools, and Public Facilities

Whether it's managing equipment operations in factories, streamlining daily operations in offices, optimizing energy use in schools, or meeting energy-saving needs in public facilities, the smart socket enhances efficiency across the board and reduces waste!

Non-Intrusive Smart Energy-Saving Solution for Real-Time Monitoring and Remote Management

The DCN-100 offers a non-intrusive installation solution, leveraging Wi-Fi technology to collect device energy consumption data, enabling real-time monitoring and health analysis. The system allows flexible configuration of electrical devices and DCN-100 Smart Sockets based on device locations such as production lines or workstations, creating intelligent energy-saving workstations. This solution is ideal for equipment used in factory workstations, such as lighting, screens, exhaust fans, data collectors, and welding guns. It can integrate with work orders and production schedules to set remote switch schedules based on actual device usage conditions. The DCN-100 not only enhances the convenience and intelligence of factory equipment operation but also significantly reduces energy consumption, providing enterprises with a more efficient energy-saving management solution.

Hardware Dimensions



Product Specifications

Network	
Protocol	IEEE 8.2.11b/g/n
System Requirement	Chrome Browser
Wireless Network Type	Wi-Fi 2.4 GHz
General Specifications	
Dimensions (L x W x H)	9.0cm x 6.5cm x 2.8cm
Material	Fireproof grade UL94 – Flame retardant grade V0
Button	Reset button / Power button
Indicator Light	Button light: Relay on - Steady green light, off when idle LED indicator: Flashing red during connection, off when configuration is complete
Rated Voltage/Frequency	125V~ 60Hz
Rated Current	MAX 15A
Functional Specifications	
Voltage Measurement Range	~125.00 VAC
Current Measurement Range	~15.000 A
Sampling Rate (Adjustable)	≤10 times/second (≥100 ms)
Product Features	
Transmission Function	Transmits measurement data via Wi-Fi
Memory Function	Automatically saves power-on/off states during unexpected power outages and restores the original state after power recovery
Protection Function	EMC electromagnetic compatibility handling; overcurrent protection to prevent overload
Wireless Control	Remote on/off power control

* Specifications subject to change without notice.

Ordering Information

DCN-100 Smart Socket

Download the Chroma ATE APP to get the latest product and global distribution information



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Android

DCN-100

Search Keyword