



Unique Technology

2015 Product Catalogue








UNIQUE SMART METER TECHNOLOGY




Since 1993, Unique Technologies has been an innovator of smart metering solutions for utilities and businesses worldwide. Unique's products allow for remote control and monitoring of power meters, providing benefits such as:




- Remote meter reading updated at fifteen minute intervals
- Remote connection/disconnection and power limitation to prevent grid failure and combat theft
- Theft alarms and theft prevention systems
- Remotely configurable pre-payment and post-payment option
- Sophisticated multi-tariff calculations based on time of use, allowing for peak and off-peak pricing



Unique provides a variety of sophisticated smart meter solutions to ease revenue collection and ensure energy efficiency. Our product catalogue includes:

Product Title		Features
Single-Phase Meters		
M160R 15(60)A DIN-rail mounted meter with display and relay		<ul style="list-style-type: none"> • Class 1 or 2 direct measurement static watt-hour meter • Uses Power Line Communication • Receives from concentrator: Time of Use (TOU) tables, power limit, clock synchronization, disconnection commands and prepaid energy credit • Transmits to concentrator: Meter status and energy consumption calculated with multiple tariffs based on time of use • Allows for remote disconnect/reconnect and power limitation • Built-in display • Configurable for use with separate display unit

<p>M160RWD 15(60)A DIN-rail mounted meter with relay</p>		<ul style="list-style-type: none"> • Class 1 or 2 direct measurement static watt-hour meter • Uses Power Line Communication • Receives from concentrator: Time of Use (TOU) tables, power limit, clock synchronization, disconnection commands and prepaid energy credit • Transmits to concentrator: Meter status and energy consumption calculated with multiple tariffs based on time of use • Allows for remote disconnect/reconnect and power limitation • Built-in display • Configurable for use with separate display unit
<p>M180RSB 20(80)A standard-base mounted meter with keypad, display and relay</p>		<ul style="list-style-type: none"> • Class 2 direct measurement static watt-hour meter • Uses Power Line Communication • Remote disconnect/reconnect and power limitation • Keypad entry for prepaid energy with STS tokens
<p>M180R 20(80)A wall mounted meter with display and relay</p>		<ul style="list-style-type: none"> • Class 2 direct measurement static watt-hour meter • Supports prepayment • Power Line Communication • Built-in display • Configurable for use with separate display unit and/or keypad for prepaid energy with STS tokens
<p>M120 Mini-meter for installation within appliances</p>		<ul style="list-style-type: none"> • Single phase miniature watt-hour meter with advanced Automatic Meter Reading (AMR) and management features. • Installed within a separate energy consuming device (as lighting facilities, boiler's control boxes, etc.) and implements remote monitoring of energy consumption. • Receives from concentrator: Time Of Use (TOU) tables, power limit, real time clock • Transmits data to the concentrator: energy reading, status, TOU reading

<p>M1100R 10(100)A wall mounted meter with relay switch</p>		<ul style="list-style-type: none"> • Direct connection meter • Two-way communication with central concentrator using existing power lines • Remote disconnect/reconnect and power limitation • Functions either as credit meter or in prepayment mode • Optional separate display and keypad unit available for installation in customer residence, for prepayment using STS digital tokens
<p>Three phase meters</p>		
<p>M380 3x20(80)A wall-mounted meter with display</p>		<ul style="list-style-type: none"> • Direct connection meter, enabling advanced communication capability for monitoring and managing power networks • 3x230(400)V • Measures active and reactive electricity energy consumption and transmits data over the power network, using two way Power Line Communication (PLC)
<p>M380R 3x20(80)A wall-mounted meter with display and relay</p>		<ul style="list-style-type: none"> • Direct connection electricity meter, enabling advanced communication capability for monitoring and managing the power network. • 3x230(400)V • Relay switch in each phase to remotely disconnect/reconnect customer's power • Measures active and reactive electricity energy consumption and transmits data over the power network, using two way Power Line Communication (PLC)
<p>M320CT 3x5(20)A wall mounted Current Transformer connection meter with display</p>		<ul style="list-style-type: none"> • Advanced communication capability for monitoring and managing power networks • 3x230(400)V • Measures active and reactive electricity energy consumption and transmits data over the power network, using two way Power Line Communication (PLC)

<p>M360 3x15(60)A DIN-rail meter with display</p>		<ul style="list-style-type: none"> • Compact direct connection meter with advanced Automatic Meter Reading (AMR) and management features • 3x230(400)V • Measures energy consumption and transmits data over the power network using two way Power Line Communication (PLC) • Receives from concentrator: Time Of Use (TOU) tables, power limit, real time clock • Transmits data to the concentrator: energy reading, status, TOU reading
<p>M3100R 3x10(100)A wall mounted meter with relay switch and display</p>		<ul style="list-style-type: none"> • Direct Connection Meter • Communicates using either Power Line or Cellular Communication • Low voltage: 3x230(400)V • Supports prepayment and credit modes
Concentrator		
<p>C3100/ C320CT Concentrator</p>		<ul style="list-style-type: none"> • Manages communication between control center and up to 400 meters. • Three-phase central unit for remote reading, processing and controlling meters. • Communicates with the meters using two way PLC (Power Line Communication) • Communicates with control center over variety of wireless or optic networks • Operate as three phase meter for measurement of substation voltage and output power, for comparison to power billed in order to locate theft
Keypad and Display Units		
<p>D120KP In-residence separate display unit with keypad</p>		<ul style="list-style-type: none"> • Allows for total meter isolation to prevent energy theft • Communicates with its associated electricity meter using PLC (Power Line Communication) • Displays data sent between meter and concentrator • For use in prepayment and credit applications in AMI (Advanced Metering Infrastructure) system • Available in plug-in or wall mounted models, for installation in any convenient location in customer's premises • Enables entry of STS tokens for prepaid energy

D120 In-residence separate display unit		<ul style="list-style-type: none"> • Allows for total meter isolation to prevent energy theft • Receives data using Power Line Communication • Available in plug-in or wall-mounted models
Appliance Control Device		
A130R Single-phase DIN-rail relay switch		<ul style="list-style-type: none"> • Allows for flexible and active Demand Side Management. • Remote disconnection/reconnection by individual command from control center or by automatic pre-programmed shading tables
Street Light Control and Dimming		
Save Lite Remote Communication Unit		<ul style="list-style-type: none"> • Monitors and controls lamps using Power Line Communication, allowing for inexpensive installation • Identifies faulty lamps • Tamper alert upon intrusion • Remotely programmable dimming profiles to allow for seasonal change, weather conditions and special events • Strategic dimming allows for 30% reduction of power usage without compromising road safety

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