



INNOVATIVE THINKING TO ANTICIPATE YOUR NEEDS

EnQ Smart Meters from Sieco-Tech are advanced, robust and versatile electricity meters designed to suit the needs of both today's smart utilities and their customers. Designed to provide the strict accuracy you've come to expect, EnQ Smart Meters also offer state of the art communications options and advanced metering infrastructure features to keep the information and tools needed to manage your complex business at your fingertips.

With models suited for residential, commercial and industrial metering applications, EnQ meters are ready to connect your customers to your AMI, with a variety of connectivity platforms using modern industry standard protocols.

Durability, reliability and serviceability are as important to Sieco-Tech as they are to our customers. The integrity and security of the data and status information collected by our meters is a key element of EnQ's internal operating system. Compatibility with other key AMI components make EnQ meters an easy solution for deployment. These important principals make Sieco-Tech EnQ meters a smart choice for your smart grid.



Three-Phase Multi-Functional Cellular ready Network Electronic Meter (GPRS / GSM / CDMA)

ENQ DTSD/DSSD 501





Multiple Customer Metering System

Brief introduction

EnQ DTSD501/DSSD501 is a 3-phase Multi-functional Cellular ready Network Electronic Meter, which is specially designed as a new generation of network meter using embedded software and hardware and combining with our experiences of design and field operation of metering products in the industry. Over many years, the requirements of management and modernization of utilities has been optimized. Using technologies of micro-electronic, IC-chip and modern communications, the concentrator supports GPRS / GSM / CDMA wireless communications. Together with a master station, it can realize all functions of

automatic meter reading, load monitoring and controlling, pre-paid management, data transferring and usage alarms. Widely applied to electricity services in the field at major client sites, it is a multi-function network meter with a practical value for power-selling automation of the utilities. The performance and protocol of the meter are respectively in line many international standards for communication in the multi-functional meter space. The GPRS/GSM/CDMA communication module follows the all international standards and can be used on a range of bands depending on country of install.

Communications: Internet Protocol (IP) communications capable. Meter can establish an internet connection and communicate metering and status information via standard File Transfer Protocol (FTP)

Event log: Record events such as under-voltage, over-voltage, and meter programming, including occurrence number and time. Includes a power failure information recording function

Time Of Use (TOU): the meter provides the capability of 4 rates, 80 time segments, 4 seasons, 10 day schedules (day-type table) supporting weekends and holidays. Each rate has a separate register to accumulate energy consumption.

Interval Data Logging: The meter records the kWh consumed for every consecutive time interval for every metering point. Logging interval times are selectable from 5 minutes to 24 hours. Data remains in memory for a minimum of 96 days at 1 hour intervals

Next-generation Multi Meters Features

PRECISION

An embedded, high-speed, high-precision module of sampling AC voltage and current is applied and it has a higher sampling precision and real-time energy metering accuracy. Metering both active and reactive power quantities and maximum demand in bi-direction at different tariffs, and with dual 485 communications interfaces, LCD display by manual and IR powered after power failure.

MOBILE READY

High-speed, full-duplex and industrial-grade GPRS/GSM/CDMA module for communication channels is applied, supporting TCP/UDP/SMS wireless network communications. Wireless communication module supports hot-swap interface. Replacing a communication module is fully automatic with no configuration required. Meter will automatically recognize the wireless MODEM type and connect on-line.

POWER

With an excellent EMC, our meters can withstand a high-voltage spike pulse, a strong magnetic field, a strong electrostatic and lightning surge interference. It has an excellent temperature adaptive capacity. Continuous service even during a power failure in any phase (3-phase 3-wire or 3-phase 4-wire). Even with extremely low power consumption.

INDOOR-OUTDOOR

A sealed design with PVC waterproofing and fire retardant materials. An in wall-unit is composed of lighter weight composites and is easy to install.

Model	ENQ DTSD501 / DSSD501
Accuracy	Active: (0.5S, CL 1), Reactive: CL 2
(V) Reference voltage	3×220/380 3×57.7/100
(A) Basic current	3×1 (2) 3×5 (20) 3×10 (60) 3×20 (80) 3×1.5 (6) 3×10 (40) 3×15 (60) 3×30 (100)
Dimensions	263mm×175mm×80mm
Weight (kg)	2.4
Normal operation voltage	0.8Un~1.15Un
Voltage circuit consumption	≤2W and 5VA
Battery voltage for power failure	3.6VDC
Battery voltage for data	3.6VDC (4.8VDC for GPRS Unit)
Clock accuracy (error per day)	≤0.5s
Battery capacity	≥ 1000mAh
Data retention at power failure	≥10years with a new battery
Data retention on battery power at failure	≥1h
Normal operation temperature	-25°C~+55°C
Storage and operating humidity	≤85%
Number of tariffs	4
Number of periods	10
Range of registration	~999999.99 kWh
Display	LCD

“ Innovative metering and network applications from Sieco-Tech to empower your business. ”

DEREK CHIU; CEO SIECO-TECH CANADA INC.