

Chapter 9 Demand

This chapter explains how to configure and view demand values on your meter.

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Introduction

Demand is a measure of average power consumption over a fixed time interval. Peak (or maximum) demand is the highest demand level recorded over the billing period. The method of measuring demand uses Sliding Window Demand modules. These modules are configured to calculate the average current demand and kW, kVAR and kVA demand. The setup registers in the demand modules define time intervals for demand calculations, setting the sensitivity of the module's operation.

See the *ION Reference* for more information about these modules.

Configuring Demand

Use ION software to change your meter's demand settings.

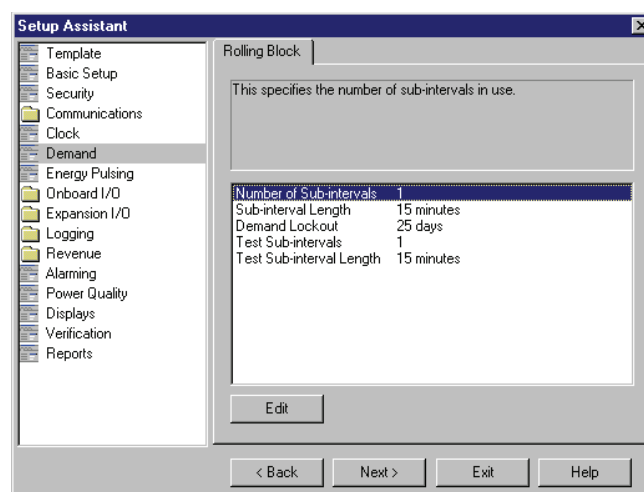
Using the front panel

You cannot configure Demand using the front panel.

Using ION Setup

The Demand Setup Assistant helps you configure Sliding Window Demand. This screen also contains two registers used for configuring Sliding Window Demand while the meter is in Test Mode.

1. Open ION Setup and connect to your meter, using Basic Mode.
2. In the Setup Assistant, navigate to the Demand folder.



3. Configure Rolling Block demand by selecting a register and clicking **Edit**.

You can also configure the Sliding Window Demand modules using Advanced Mode.

1. Connect to your meter, using Advanced Mode.
2. Click on the module you want to configure.

Using Designer

Open your meter in Designer and navigate to **Demand Setup > Sliding Window Demand**. Right-click on a module to edit.

Sliding Window Demand Module Settings

Sliding Window Demand is often referred to as Rolling Block Demand. To compute sliding window demand values, the Sliding Window Demand module uses the sliding window averaging (or rolling interval) technique which divides the demand interval into sub-intervals. The demand is measured electronically based on the average load level over the most recent set of sub-intervals. This method offers better response time than fixed interval methods.

Setup Register	Function	Default
Sub Intvl	The time, in seconds, in the sliding window demand sub-interval.	900
#SubIntvls	The number of sub-intervals in the sliding window.	1
Pred Resp	The speed of Predicted Demand calculations; use higher values for faster prediction (70 to 99 recommended).	70
Update Rate	Defines the update rate of the <i>SWinDemand</i> output register	End of Sub-Interval

Displaying Demand

View Demand values in the following locations:

Application	Menu	Navigation
Front Panel	Demand1, Demand2 screens	Press Demand1 and Demand2 softkeys
ION Setup	Demand Display Screen	Display Mode > Demand
Vista	Energy & Demand Screen (SWD)	Revenue Tab
WebMeter	Consumption Screen	Consumption link

