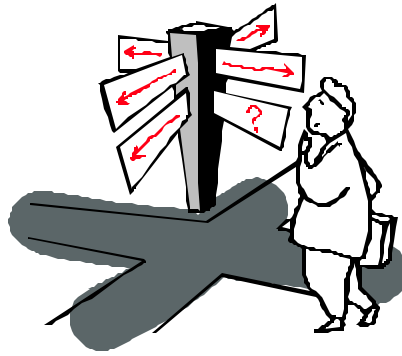


VISA II

Quick Reference

Guide



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Table of Contents

Introduction	1
Log-in	1
Meter	1
Meter Report (M Rpt)	1
Mtr Spot Rdgs (M Spot)	2
48 Hourly Mtr Rdgs (M 48 Hr)	2
Mtr Hourly Avgs (M Hr Avgs)	2
Mtr Day Avgs (M Day Avgs)	2
Mtr Stats (M Stats)	3
Download/Graphs	3
Mtr Download/Graphs	3
Mtr Column Download (Mult Mtr Download)	3
CMS Vol	3
User Sets	3
User Settings	3
Chart Data	4
Save As	4
Meter Codes	4

VISA II Quick Reference Guide

Introduction

VISA II is an El Paso Corporation application developed to display flowing gas data from Supervisory, Control, And Data Acquisition (SCADA) collection routines and Tennessee Gas Pipeline (TGP) Corporate Measurement System (CMS). VISA II presents a variety of measurement data, both real-time and historical, using Internet and other technology. Data may be viewed one-at-a-time or in groups, as well as, downloaded or graphed. VISA II employs contemporary conventions such as keyboard shortcuts, menus; tool bars, window manipulation, and save as capability.

Currently, there are no plans to limit the amount of history available in VISA II. However as data accumulates, practical considerations may dictate limiting retention.

The purpose of this document is to provide an overview of VISA's functionality. Refer to VISA II application online Help for additional assistance.

Both real-time and historical data are considered confidential and may not be published or distributed outside of your company without the written consent of El Paso Corporation. If, at any time, you discover that you or your company has access in VISA II to any data that is not yours, it is your responsibility to inform VISA II Services at El Paso Corporation immediately. El Paso Corporation assumes no responsibility for the accuracy of the real-time data accessed and reserves the right to change historical data contingent on error discovery and Gas Industry Standards Board (GISB) standards.

VISA II Login

VISA II is located on the Internet at www.TennesseeAdvantage.com. Click on the PassKey symbol to see the VISA hyperlink.

Note: First time users of VISA II need to wait approximately 3 minutes BEFORE entering login information for downloading of a file needed to communicate with the Citrix server.

Provide User ID and Password to access VISA II. The initial screen checks whether the user has rights to any of the groups shown. Currently, East and West are the only two groups. East pertains to Tennessee Gas Pipeline (TGP) from the Mexican border, northeast to the Canadian border and West pertains to El Paso Natural Gas (EPNG) from Texas to California.

Meter

Meter Report (M Rpt)

M Rpt or Meter Report provides the user with five (5) days of data either by meter number (meter code) or by user set. User set is a user-built set of data points that are grouped together for viewing convenience. For example, a user set may contain differential pressure and Decatherm data for six meters of particular interest. (See the Meter Codes section for data point definitions.) The beginning date specified in the month/day/year select boxes determine which five days are displayed.

Real-time data consists of selected data retrieved from TGP gas flow computers (GFCs) by query polls like snapshots of flowing parameters. Real-time data is then loaded to VISA II every fifteen minutes.

View real-time data by selecting M Rpt, M Spot, M 48 Hr, M Hr Avgs, M Day Avgs, and M Stats from the toolbar or from the menu selection under Meter.

All real-time data is un-scrubbed—TGP Measurement Analysts have not validated the data in terms of mechanical meter error corrections, Prior Period Adjustments, erroneous flow time corrections, or other error correction to invalid volume factors. Since the data is un-scrubbed, use with discretion.

Specify a meter number in the select box and press enter or single-click the Retrieve button.

Column definitions:

Spot - the last “snapshot” data retrieved from the Gas Flow Computer (GFC)

Hr Avg - the last hourly average, which may be the same as the last spot, depending on flow characteristics

Today's Avg - a weighted average of today's data, which may be close to the last hourly average, depending on flow characteristics

Each of the dated columns contains point data for the meter selected.

Mtr Spot Rdgs (M Spot)

M Spot or Meter Spot Rdgs displays instantaneous spot or snapshot data in 15-minute averages loaded from SCADA. Thus the user can see data as recent as a few seconds ago if the 15-minute load just occurred.

Select M Spot or Meter Spot Rdgs to download data pertaining to only those meters under current contract rights. Select the data point by single-clicking the data row.

When requesting a new screen with a data point currently selected, VISA II passes the data point from the existing screen to the requested screen to save entering the data point again.

Enlarge the list window for viewing convenience by dragging the list window border to the desired size. (Enlarging the list window decreases the size of the data window.)

48 Hourly Mtr Rdgs(M 48 Hr)

M 48 Hr or 48 Hourly Mtr Rdgs displays yesterday and today's hourly average data relative to the data point selected in the list window.

Mtr Hrly Avg (M Hr Avgs)

M Hr Avgs or Mtr Hrly Avgs displays hourly averages similar to M 48 Hr or 48 Hourly except for the option of choosing a production day. Choosing a production day more than three days in the past displays data that has been validated by TGP Measurement Analysts and may not be representative of actual billing volumes or parameters.

Mtr Hrly Avg is similar to M48 Hr or 48 Hourly Mtr Rdgs in respect to the data view; however, a month, day, and year range provide historical production day selection.

Mtr Day Avgs (M Day Avgs)

Mtr Day Avgs or M Day Avgs displays information similar to M48 Hr or 48 Hourly Mtr Rdgs except it is rolled up to a daily figure; historical selection is available.

Mtr Stats (M Stats)

Mtr Stats is a monthly view by day including minimum, maximum, and average values.

Download/Graphs

Mtr Download/Graphs

Meter Downloads/Graphs allow the user to view data graphically and manipulate and view data in spreadsheet and format.

Note: Downloading is available in all data view by using the menu command File/Save As and choosing the type of file required.

Select the frequency and select Retrieve to load data.

Note: Spot Rdg is very detailed data pertaining to today and possibly yesterday, depending when the request was submitted and does not graph well due to the amount of data.

Once the data has loaded, select Show Graph.

View the graph and various options for changing how the data is displayed.

Mtr Column Download

Multiple Meter Download allows the user to obtain data for up to 10 data points and arranges the data in column format.

CMS Vol

CMS Volumes display volumes from the Corporate Measurement System (CMS). (These volumes may have been scrubbed by Measurement Analysts for all known errors in measurement data.)

CMS volumes are scheduled to load to VISA II once a day. For example, January 5th production day measurement data is loaded into CMS on January 6th between 11:00 A.M. and 1:00 P.M., then loaded into VISA at 7:00 P.M. that evening, January 6th.

User Sets

User sets are user-defined groups of data that can be viewed together for convenience. For example, Dp on several meters may be associated in one User Set; Pressure, in another.

Lists are available to Meter Report and Mult Mtr Download.

User Settings

Default viewing parameters may be set by the user. For example, meter code may be selected as the preferred choice for viewing meter data. Go to User Settings and change the button selection from Index No to Meter Code.

Chart Data

Chart meters are generally hand processed and therefore processed differently than the electronic meters. Since chart meters are not scanned (i.e., not known to SCADA), they are not available for loading into the view window. However, chart data in CMS can be viewed like electronic meters by entering the meter number in the Meter Number select box and retrieving.

Save As

Save As allows the user to save the data in various formats such as Excel or text.

Meter Codes

Description of meter (TGP designation for an exchange location) codes.

Meter Code	Meter Code Description
20886	Instantaneous flow rate Mcf at meter 20886 This may not be representative of daily accumulated flow in dynamic conditions
20886 1-DP	Differential Pressure on Tube #1
20886 2-DP	Differential Pressure on Tube #2
20886 3-DP	Differential Pressure on Tube #3
20886 -BTU	British Thermal Units (BTU)
20886 -CPR	Customer Pressure
20886 -DAD	Daily Accumulated Decatherm
20886 -DAM	Daily Accumulated Mcf
20886 -GRA	Specific Gravity
20886 -GT	Gas Temperature
20886 -PDD	Previous Day Decatherm
20886 -PDM	Previous Day Mcf
20886 -PR	Static Pressure

Note: DAD, DAM, PDD, PDM are not averaged over the time scale viewed. These are calculated in the GFC and VISA II simply displays the value. DP, BTU, CPR, GRA, GT, and PR will be averaged from 15-minute data to hourly and then from hourly to daily.