

Technical Bulletin, Secondary Totalizers Provide Net Volume at Temperatures other than 15°C or 60°F



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NOTE: User Manual Reference - This Technical Bulletin complements the information contained in
Volume 4: Modbus Database Address and Index Numbers Rev 20/24.

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Scope

Firmware Versions 20/24 of OMNI 6000/OMNI 3000 Flow Computers have secondary net totalizers for when more than one reference temperature is required.

Abstract

Sometimes it is necessary to provide net totalizers at more than one reference temperature.

Table 1 shows the Modbus data points that are used to provide secondary net totalizers in the OMNI. Secondary totalizers are calculated real time just like the normal totalizers.

The secondary totalizers are activated by setting up floating point data point 7699 with the secondary reference temperature required. This data point is initialized to 0.0 on a cold boot. A cold boot occurs after a 'Clear All Ram' command is executed, which effectively disables the extra totalizers and their appearance on the OMNI default reports (0° cannot be used as a second reference temperature).

You may set up 7699 with a simple variable statement. For example: **7699=#68** will provide a second set of net totalizers corrected to 68 degrees. You may also initialize point 7699 via a one-time Modbus write. If you choose to use the statement method, you may remove the statement immediately after you enter it, but should probably leave it to serve as a document trail.

Table 1. Database Location of Second Set of Net Totalizer Data

	CURRENT BATCH	PREVIOUS BATCH	CURRENT DAILY	PREVIOUS DAY
Meter #1	5196	5198	5197	5199
Meter #2	5296	5298	5297	5299
Meter #3	5396	5398	5397	5399
Meter #4	5496	5498	5497	5499
Station	5896	5898	5897	5899

Keypad Entries Needed to Display the Extra Totalizers

Secondary totalizers are viewed using the same key presses used to view the normal net totalizers. For example: pressing [Meter] [n] [Net] or [Net] [Meter] [n] will display meter 'n' net flow rates and totalizers followed by the secondary net totalizers. Pressing [Meter] [n] [Batch] [Net] will display the batch net totalizer followed by the secondary batch net totalizer. Likewise, the Station secondary totals are viewed using the same key presses that are used to view the normal station net total. Pressing [Net] will display the station net totalizer followed by the secondary net totalizer. Pressing [Batch] [Net] will display the station batch net totalizer followed by the secondary batch net totalizer.

DOCUMENT REVISION HISTORY

DOCUMENT INITIAL RELEASE DATE.....14-May-2003

<u>REVISION</u>	<u>DATE</u>	<u>PURPOSE / CHANGE REQUEST</u>
A	03-May-2003	Maintained on the Web
B	23-February-2009	DCR 090046
C	31-March-2011	DCR 110066