Addendum
Transmitter M800

Content

METTLER TOLEDO

8.1.4.6 Settings for TOC Measurement

For information on how to configure parameter related settings associated with TOC measurement, refer to the 5000TOCi operating manual provided with the 5000TOCi Total Organic Carbon Sensor.

8.16   RS 485 Output Configuration

(Path: C/RS485 Output)
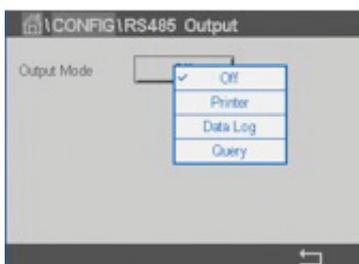
The RS 485 Output menu option allows configuring the M800 RS 485 output for either data output to a PC or PLC for data logging or processing, or for output to a suitable printer if a permanent printed record is desired. The configuration is chosen by pressing the Output Mode button. The mode options available are **Off, Printer, Data Log** and **Query.**

The RS 485 output may be configured to print or provide data output of up to 6 configured measurements for each available sensor input, including pulsed input channels.
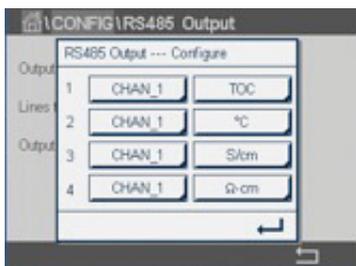
Once the RS 485 output function has been selected and configured according to the steps in the sections below, the output data must be selected. Press the **Configure** button shown in the RS 485 Output setup screen to specify the data for output to printer or to a connected RS 485 device. The number at the left of the window shows the order in which the lines will appear on the printer output from top to bottom, or the order in which the columns will appear from left to right for data log or query mode. From the first dropdown, select the channel with which the desired sensor is connected. This dropdown will list the labels associated with each channel as configured under Channel Setup. Using the second dropdown, select the unit associated with the measurement to be displayed. Note that if more the 4 lines of output have been selected, the < and > icons can be used to navigate through the pages to display all parameters to be configured.

Once the measurement output configuration has been completed, press the ↵ icon and then the ⇐ icon. Select **Yes** to save changes and return to the ✱❈ menu.

8.16.1   Off

Selecting Off deactivates the RS 485 Output.

8.16.2 Printer
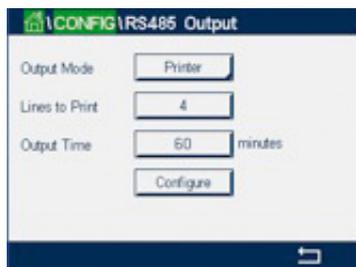
The Printer option allows configuring the M800 RS 485 output to send data to a suitable printer. The printer output may be configured to print up to 6 configured measurements on separate lines, for each available sensor input, including pulsed input channels. At each print cycle, the output will include a header line with date and time based on the M800 internal clock, and one line for each configured measurement including channel, measurement descriptor, measurement value and unit of measure.

The output will appear as follows:

```
11/May/2012  15:36
Ch   Label    Measurement
1    CHAN_1   302    ppbC
2    CHAN_2   0.54   uS/cm
3    CHAN_3   7.15   pH
```

To configure the printer output,
access the printer menu and configure the following options:

Lines to Print defines the number of measurements that will be printed for each print cycle. Enter the total number of measurements to be configured for output.

Output Time defines the time in minutes between each print cycle. Output time may be set from 1 to 1440 minutes (1 day).

8.16.3 Data Log
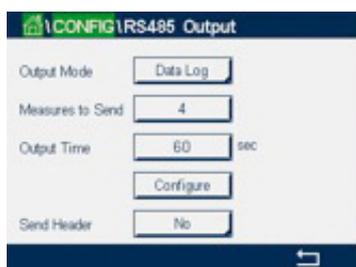
The Data Log option allows the RS 485 output to be configured for output to either a PC or PLC for data collection and record keeping at a regular time interval, programmed by the operator. The data output will include header information, sent when the data log is first activated. Each output cycle will include a Date Stamp and Time Stamp, plus Measurement and Unit information for each parameter selected for output as described in the **Configure** section above. If the header information must be re-sent for any reason, use the **Send Header** button, described below.

The output is formatted as tab-separated columns including the date and time of the measurement, and then the value and unit-of-measure for each parameter configured for print. A sample of the output is shown below, after being exported to an application (such as many common spread-sheet applications) capable of properly formatting tab-separated data.

Date	Time	Ch1_M1	Ch1_M1Unit	Ch1_M2	Ch1_M2Unit
25/Feb/13	11:41:46	30	ppbTOC	25.7	DegC

Measures to Send defines the number of measurements that will be sent to the RS 485 output for each output cycle. Enter the total number of measurements to be configured for output.

Output Time defines the time between each output cycle. The output time may be configured for from 1 to 3600 seconds, or from 1 to 60 minutes (1 hour).

Send Header will transmit the column label information (or the Header Row) one time. This function allows re-transmitting the header information. This may be necessary if the data collection system was not active at the time that data logging began.

To re-send the header in formation, press the button labeled Send Header, select **Yes**, press the ⇆ key, and then select **Yes** to save changes.

8.16.4   Query

The Query option allows the RS 485 output to be configured for output to either a PC or PLC only when the data is requested. The output data configured at the M800 will be sent when the command „DOOZ" is received by the M800 over the RS 485 communication line.

The output data is formatted as a tab-separated line including the date and time of the measurement, and then the measurement value and unit-of-measure for each parameter configured for output. A sample of the query output is shown below:

25/Feb/13   11:41:46   30   ppbTOC   25.7   DegC

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