

Realtime Recorder

Block Group:	Table Operations
Icon:	

The Realtime Recorder block monitors changes to specified values and creates a table to record current and historical values. Every time one of the monitored values changes, a row is added to the table with a timestamp and all of the values.

Realtime Recorder table contents are saved only in the current session.

For information on using dataflow blocks, see [Dataflow](#).

For answers to some common questions about working with tables, see [Tables](#).

Input/Output Properties

The following properties of the Realtime Recorder block can take input and give output.

- **enabled** (*boolean*)
- **bufferSize** (*number*)
- **reset** (*trigger*)
- **name** *n* (*string*)
- **value** *n*

enabled determines whether the block is currently recording and creating a table.

bufferSize specifies the number of rows that the output table can hold. When the buffer is full, the oldest rows are deleted from memory.

reset clears the table.

name *n* specifies a column name for the **value** *n* values in the output table.

value *n* specifies a value to monitor and output in the output table.

Output Property

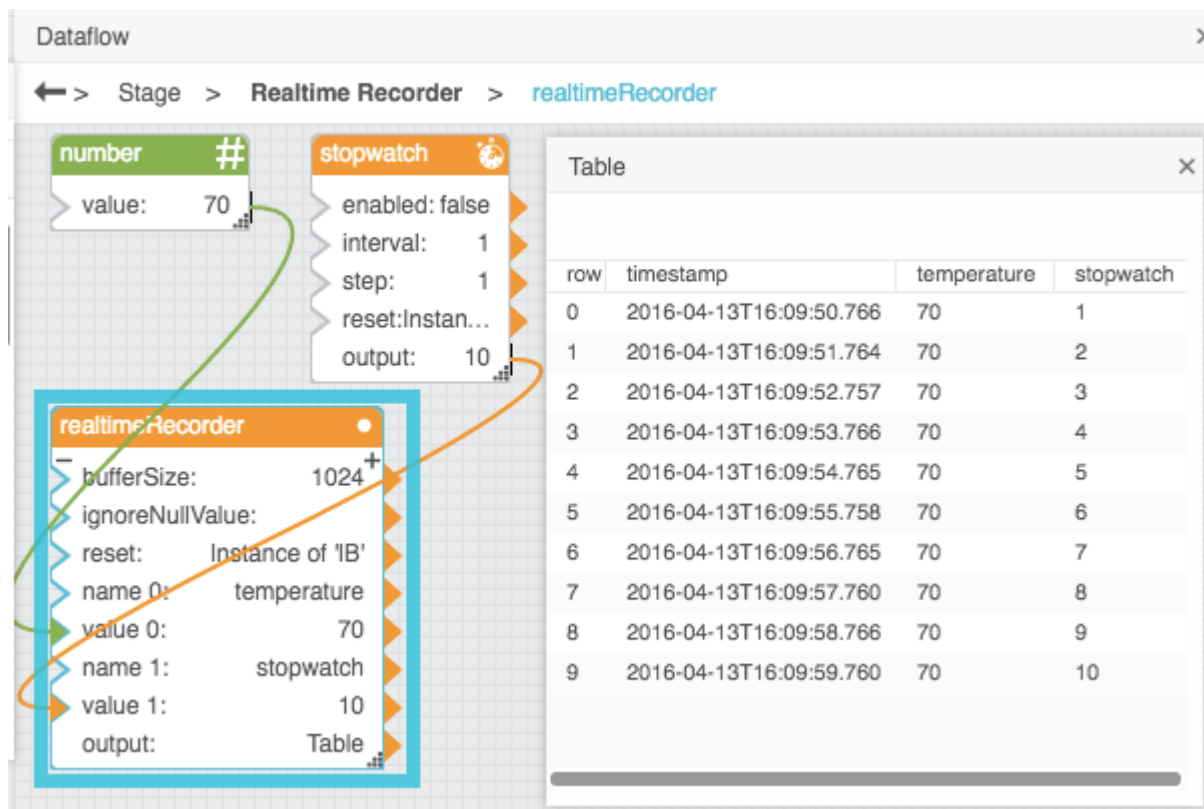
The following property of the Realtime Recorder block can give output but cannot take input.

- **output** (*table*)

output returns a table of timestamps and values. The table contains a row for each monitored change.

Example

The following image shows an example of the Realtime Recorder block. In this example, a Realtime Recorder block is creating a table that monitors any changes to an input number and to a stopwatch value.



The screenshot shows the configuration of the Realtime Recorder block in a Dataflow environment. The block is connected to two input sources: a 'number' block and a 'stopwatch' block. The Realtime Recorder block is configured with a buffer size of 1024, and it monitors changes to the 'number' and 'stopwatch' inputs. The output is a table with the following data:

row	timestamp	temperature	stopwatch
0	2016-04-13T16:09:50.766	70	1
1	2016-04-13T16:09:51.764	70	2
2	2016-04-13T16:09:52.757	70	3
3	2016-04-13T16:09:53.766	70	4
4	2016-04-13T16:09:54.765	70	5
5	2016-04-13T16:09:55.758	70	6
6	2016-04-13T16:09:56.765	70	7
7	2016-04-13T16:09:57.760	70	8
8	2016-04-13T16:09:58.766	70	9
9	2016-04-13T16:09:59.760	70	10

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