

# HI\_AddGraphData

## %HI\_SetGraphData and %HI\_AddGraphData functions

Old name	%HI_SetDiagramData
Function	The function <b>%HI_SetGraphData</b> sets the data to display in the displayer of <a href="#">Graph</a> type ( <a href="#">Control function</a> ).  The function <b>%HI_AddGraphData</b> adds data into a specific graphic flow.

Declaration	<pre>%HI_SetGraphData(     INT in refId,     INT in index,         in refToCol,     INT in step,     INT in bStart )</pre>
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	<pre>%HI_AddGraphData(     INT in refId,     INT in index,         in refToCol[,     INT in step := 0] )</pre>
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Parameters	
<b>refId</b>	Reference to graphic object ( <a href="#">reference variable</a> ).
<b>index</b>	Serial number of the graphic flow.
<b>refToCol</b>	<a href="#">Reference to column</a> of local variable of <b>RECORD</b> type.
<b>step</b>	Optional parameter.
<b>bStart</b>	Unused parameter.

Description	<p>The graph must be placed in the picture, where the parameter <i>refId</i> is the reference variable of the graph. The parameter <i>RefToCol</i> is the reference to the structure column (item), that includes the data to display. Individual values in the structure column are forming a value array. Each of the values contains a timestamp used to display in the graph. These timestamps must be arranged upwardly. The parameter <i>step</i> determines, whether the data in the graph considers to be periodical (value is defined in the time written in its timestamp). If the value of the parameter <i>step</i>=0, the values are displayed as non-periodical (change values). The parameter <i>bStart_Int</i> is not used.</p> <p>Data fulfilment can be used only for the graphic flows with defined <a href="#">alternate object</a> - <b>***</b>.</p> <p>The function <b>%HI_SetGraphData</b> (unlike the %HI_AddGraphData function) deletes all the values of the flow first and then inserts the new ones.</p>
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Example	The following example reads values in last 10 minutes from the archive and displays them in the graph.
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```
ENTRY sendData_OnClick
  INT _retCode
  TIME _BT
  TIME _ET

  RECORD (SD.ArchVal) _data

  _ET := SysTime
  _BT := %SubTime(_ET, 10*60)

  GETARCHARR H.Sec, _data^Value, _data^Flags, _BT, _ET, 0, 1000, _retCode

  %HI_SetGraphData(_graf, 2, _data^Value)
  %HI_SetGraphInfo(_graf, 2, "Number of values = " + %IToStr(_data\DIM))

END sendData_OnClick
```

**Related pages:**

[Graphic object manipulation functions](#)  
[Function arguments - types](#)