HI_SetGraphData

%HI_SetGraphData and %HI_AddGraphData functions

Old name

%HI_SetDiagramData

Function

The function **%HI_SetGraphData** sets the data to display in the displayer of Graph type (Control function).

The function **%HI_AddGraphData** adds data into a specific graphic flow.

Declaration

```
%HI_SetGraphData(
   INT in refId,
   INT in index,
       in refToCol[,
   INT in step := 0,
   BOOL in bStart := @TRUE,
   INT in useAxisNr := 0]
 )
```

```
%HI_AddGraphData(
   INT in refId,
   INT in index,
       in refToCol[,
   INT in step := 0]
 )
```

Parameters

refId	Reference to graphic object (`reference variable`).
index	Serial number of the graphic flow.
refToCol	Reference to column of local variable of **RECORD** type.
step	Optional parameter.
bStart	Unused parameter.
useAxisNr	If the value is stated and is more than 0, the existing axis in the graph will be assigned to the data object. If the value is not stated or is 0, the axis assigned to the data object will not change.

Description

The graph must be placed in the picture, where the parameter *refId* is the reference variable of the graph.
The parameter *RefToCol* 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 *step* 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 *step*=0, the values are displayed as non-periodical (change values).
The parameter *bStart_Int* is not used.

Data fulfilment can be used only for the graphic flows with defined alternate object - "*".

The function **%HI_SetGraphData** (unlike the %HI_AddGraphData function) deletes all the values of the flow first and then inserts the new ones.

Example

The following example reads values in last 10 minutes from the archive and displays them in the graph.

```
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