File format for Trend Import

Remarks

You can populate trend histories by importing values via files.
The files must be in the ASCII text format.
The import takes place by program (the HISTORY verb).

A line can contain one of three types of information:

- A comment
- A keyword
- A trend point.

A comment line

A line containing a comment must start with the following characters:

- **#** or **'**

Whatever follows one of these characters is ignored. An empty line is also ignored.

A keyword line

Three keyword are recognized: FORMAT, VARNAME and VARTAGNAME.

The FORMAT keyword defines the format of the subsequent lines of trend points. The syntax is as follows:

- FORMAT, Milliseconds flag, Variable flag, Date-time format,

The Milliseconds is equal to 1 if the milliseconds are held in the date-time value, else 0.
The Variable flag indicates whether the subsequent trend point lines contain the variable's identifier.

0 No variable identifier
1 The variable identifier is the variable's name
2 The variable identifier is the variable's tagname

The date-time format defines the format of the date-time values as follows:

0 YYMMDDhhmmss[msc]
1 MM/DD/YY,hh:mm:ss[.msc]
2 DD/MM/YY,hh:mm:ss[.msc]
3 YY/MM/DD,hh:mm:ss[.msc]
4 MM/DD/YYYY,hh:mm:ss[.msc]
5 DD/MM/YYYY,hh:mm:ss[.msc]
6 YYYY/MM/DD,hh:mm:ss[.msc]

where

YYYY	Year in 4 digits (e.g. 2019)
YY	Year in 2 digits (e.g. 07)
MM	Month (01 to 12).
DD	Day (01 to 31).
hh	Hours (00 to 23).
mm	Minutes (00 to 59).
ss	Seconds (00 to 59).
msc	Milliseconds (000 to 999).

The separator characters in formats 1 to 6 above are arbitrary.

The VARNAME keyword lets you supply a variable name for the subsequent trend point lines. The syntax is as follows:

- VARNAME, *Variable name*

The VARTAGNAME keyword lets you a variable number for the subsequent trend point lines. The syntax is as follows:

- VARTAGNAME, *Variable number*

These two keywords must be used if the variable identifiers are not held in the trend point lines. They have no effect on trend point lines that do contain a variable identifier (name or number).

A trend point line

A trend point line is made up of a date-time, a value and optionally a variable identifier.

- *Date-time*, *Value* [, *Identifier*]

The date-time format must be defined in advance by a line of this type:

- FORMAT,... , *Date-time format*

An invalid value must be represented by the character "?".

The type of identifier of the variable must be defined in advance by a line of this type:

- FORMAT,... , *Variable flag*,...

Examples of import files

Example 1

```
# Trend import file "Valve1" and
# "Valve2" dated 23/03/2011
#
FORMAT,1,0,5
#
VARNAME,Valve1
#
23/03/2011,10:03:51.340,34.5
23/03/2011,10:03:54.750,38.2
23/03/2011,10:05:21.050,42.1
23/03/2011,10:11:02.620,?
#
VARNAME,Valve2
#
23/03/2011,10:04:45.520,12.3
23/03/2011,10:07:11.890,11.9
23/03/2011,10:07:52.460,11.7
23/03/2011,10:11:03.130,?
#
# End of file
```

Example 2

```
' Trend import file "Valve1" and
' "Valve2" dated 23/03/2011

FORMAT,1,1,2

23/03/11,10:03:51.340,34.5,Valve1
23/03/11,10:03:54.750,38.2,Valve1
23/03/11,10:04:45.520,12.3,Valve2
23/03/11,10:05:21.050,42.1,Valve1
23/03/11,10:07:11.890,11.9,Valve2
23/03/11,10:07:52.460,11.7,Valve2
23/03/11,10:11:02.620,?,Valve1
23/03/11,10:11:03.130,?,Valve2
```

Example 3 :

```
' Trend import file "Valve1" (tagname = "27")
' and "Valve2" (tagname = "35") dated  23/03/2011
#
FORMAT,0,2,0
#
110323100351,34.5,27
110323100354,38.2,27
110323100445,12.3,35
110323100521,42.1,27
110323100711,11.9,35
110323100752,11.7,35
#
110323101102,?,27
110323101103,?,35
```