

# Reference files of REF type

Data are written in the form:

**Keyword = value**

Names of I/O tags are in square brackets. The beginning of a file must contain parameters for the stations; the required parameters are STATION\_NAME and PROTOCOL.

## Keywords for stations

- **STATION\_NAME** (string) – name of the object of [Station](#) type. Prefix and suffix, according to defined [D2000 system naming](#), are added automatically by process [D2000 CNF](#).
- **PROTOCOL** (string) – name of the communication protocol.
- **DESCRIPT** (string) – description of the station.
- **UPDATE\_POINTS** (YES/NO). If the value is YES, there are also processed I/O tags following after parameters of station. If the keyword is not stated in reference file, its value is NO.

## Keywords for I/O tags

- **[POINT\_NAME]** – name of the object of [I/O tag](#) type. Prefix and suffix, according to defined [D2000 system naming](#), are added automatically by process [D2000 CNF](#).
- **D2TYPE** (string) – I/O tag type in D2000 system. Available types AI, AO, CI, CO, DO, DOut, TiA, ToA, TiR, ToR, QI
- **ADDRESS1** (string) – I/O tag address. This parameter depends on communication protocol.
- **ADDRESS2** (string) – I/O tag address. This parameter depends on communication protocol.
- **DESCRIPT** (string) – I/O tag description.
- **LIMITS** (string1, string2) – high (string1) and low (string2) limits of the I/O tag.
- **TECH\_UNIT** (string) – technical units.
- **DEAD\_BAND** (string) – Dead band of the I/O tag.
- **TECH\_CONV** (string1, string2, string3, string4, string5) – parameters for technical conversions. The parameter *string1* defines the conversion type:
  - **NoConv** – none, *string2* up to *string5* are useless.
  - **ConvLinear** – linear, *string2* is the parameter A, *string3* is the parameter B
  - **ConvPT100** – Pt100
  - **ConvPolynom** – polynomial, *string2* is the parameter A, *string3* is the parameter B, *string4* is the parameter C, *string5* is the parameter n.

## Keywords for inserting I/O tags into archive

- **ARCHIV** (YES/NO). If the value is YES, there is to be created an object of Historical value type of the given I/O tag. Name of the historical value is to be created from the name of the I/O tag with valid prefix and suffix defined for historical values.
- **ARC\_FILTERL** (string) – archive filter for historical value below limit.
- **ARC\_FILTERN** (string) – archive filter for historical value in limit.
- **ARC\_FILTERH** (string) – archive filter for historical value above limit.
- **ARC\_FILTER** (string) – archive filter for historical value (for all the three cases).



### Related pages:

[Example of reference file of REF type](#)