CADD Manual

MicroStation and InRoads Key-Ins

Did you know that the new CADD Manual contains two reference documents that may be of particular use to those that use Key-Ins? These documents attached below are called MicroStation Key-in Reference and InRoads Key-in Reference. They can also be found in the CDOT CADD Design Manual under Chapter Six, Drafting Guidelines, 6.6 Key-Ins.

MICROSTATION KEYIN REFERENCE

This document provides a MicroStation alternate keyins.
These keyins can be typed into the Key-in Browser individually or strung together by a semicolon.

Angle
AA= Sets the active angle

Auxiliary Coordinate Systems
AD= Places relative data points
AX= Places absolute data points
PX= Deletes an ACS
RX= Attaches an ACS
SX= Saves the current ACS

Cells
AC= Sets the Active Cell and activates the Place Cell tool
AP= Sets the active pattern cell
AR= Sets the Active Cell, and activates Place Cell Relative
CC= Create Cell from fence or selection set
CD= Delete Cell from attached cell library
CM= Creates an array of cells
CR= Rename a cell in the attached cell library
LT= Sets the active line terminator cell
PT= Sets the active point used with the Place Point command.
RC= Attaches a cell library

Color
CT= Attaches a color table

Dimensioning
LD= Sets the level for dimension data
TV= Sets the dimensioning tolerance limits

Element Symbology
CO= Sets the active color
LC= Sets the active line style
WT= Sets the active line weight

Files
EL= Creates an element list file
FF= Copy the contents of a fence to a new or existing file
RD= Open another design file
RF= Attach a reference file
SF= Move the contents of a fence to a new or existing file
XD= Exchanges the active file with a reference file

Grid
GR= Sets the active grid reference spacing
GU= Sets the distance of the grid dots in working units
UR= Sets the unit round off

Line Terminators
LT= Sets the active line terminator cell
TS= Sets the scale factor for the active terminator

Levels
LV= Sets the active level
OF= Turns levels off
ON= Turns levels on

Patterns
AP= Sets the active pattern cell
PA= Sets the pattern angle for pattern cells
PD= Sets the spacing between patterns
PS= Sets the active pattern scale

Precision Input
DI= Places a data point at a given distance and direction
DL=Places a data point at a given X, Y and Z distance along the design axes
DX= Places a data point at a given X, Y and Z distances along the view axes
XY= Places a data point using absolute coordinates

Scale
AS= Sets the active scale
XS= Sets the active X Scale
YS= Sets the active Y Scale
ZS= Sets the active Z Scale

Stream digitizing
SD= Sets the stream delta
ST= Sets the stream tolerance

Text
DF= Opens the Fonts dialog box
DR= Displays a text file
FT= Sets the active font
LL= Sets the maximum line length for text
LS= Sets the lines spacing for multiple lines of text
NN= Sets the active text node number
TB= Sets the tab spacing when importing text
TH= Sets the text height
TI= Sets the copy and increment value
TW= Sets the Text Width
TX= Sets both the height and width of the text

View Control
DV= Deletes a named or saved view
RV= Rotates a view
SV= Save a view
VI= Attaches a saved view
WO= Sets the window origin

View Control – 3D
AZ= Sets the active depth - absolute
DD= Changes the display depth - relative
DP= Sets the display depth - absolute
DZ= Sets a new active depth - relative

Miscellaneous
KY= Sets the keypoint snap divisor

INROADS KEY-IN REFERENCE

This document provides the InRoads key-ins that can be used with the MicroStation key-in browser.

Station key-in formats

When using alignment station values conventionally there is a plus sign "+" between the second and third digits. InRoads will allow you to input the station with or without the plus sign in the MicroStation Key-in Browser and InRoads dialogs.

- **`15+15.25`**
- **`1515.25`**

Slope key-in formats

When entering slope or grade information in InRoads dialogs and the MicroStation Key-in Browser you can use the below formats.

To key-in a grade of 10 percent:

- **`10%`**
- **`1:10`**
- **`.10`**

Angle key-in formats

When entering angles in InRoads dialogs and the MicroStation Key-in Browser you can use the below formats.

To key-in a bearing of N12º34'56"E:

- **`N12^34'56"E`**
- **`N12.5822E`**

Plan View key-ins

`Northing Easting Elevation (NE=)`
NE=northing,easting,[elevation]
NE= 2842525.75,1558050.78,11530.47

`Station Offset Elevation (SO=)`
SO=station,offset,[elevation],[alignment name],[project name]
SO=1500,-25,0,siderd01,geometry01

`Distance Direction (DI=)`
DI=distance,direction
DI=100,n45e

Cross Section and Profile key-ins

Delta Offset (DO=)
DO=delta,offset
DO=50,-10

Distance Grade (DG=)
DG=distance,grade
DG=200,50%

Cross Section key-ins

Offset Elevation (OE=)
OE=offset,elevation
OE=50,11430

Profile key-ins

Station Elevation (SE=)
SE=station,elevation
SE=19+50,11430