Cermate

Technical Document

The HMI Solutions and IoT Gateways Provider

May 24, 2021 | V 1.0

Software Function Guide
TN056S-E
Historic Path Function

Overview

Cermate Historic Path Function Makes Precision Manufacturing More Efficient

Consumer commodities always have high volume and comprehensive models; the biggest challenge for precision manufacturing is efficiently and effectively producing and reducing extra waste.

Using the Historic Path function on Cermate PM Designer/PanelExpress to generate a visualized chart helps operators quickly determine the production result. Once the accumulated data becomes critical information, the know-how used for cross-check to avoid error happens frequently.

Cermate Products

HMI: PA2 / PK2 / PT2 / PX / IT400 Series

Gateway: SX51 / SX52 / ES Series

PanelExpress v4.0 version

Software

OS: Windows 7(64 bit) / Windows 10(64 bit)

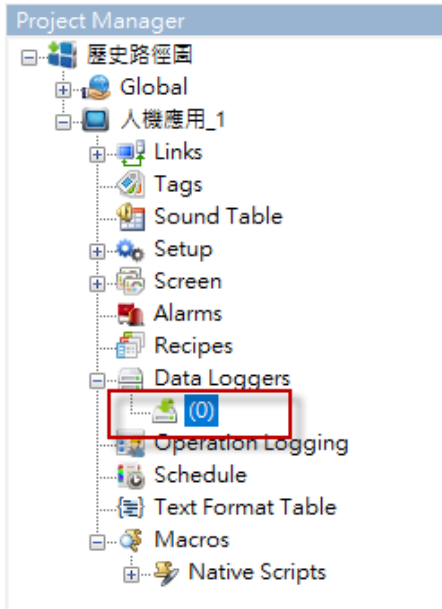PM Designer: PM Designer v4.0.5.18 or higher version

Software Download Link

Please download the latest PM Designer from the link below.
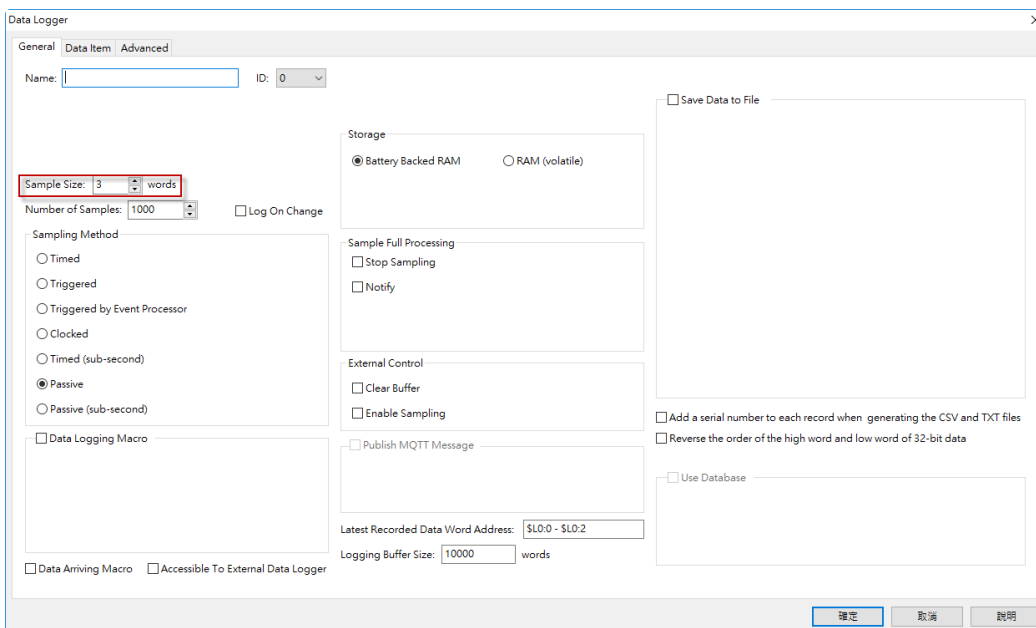
https://www.cermate.com/downloadsoftware.html

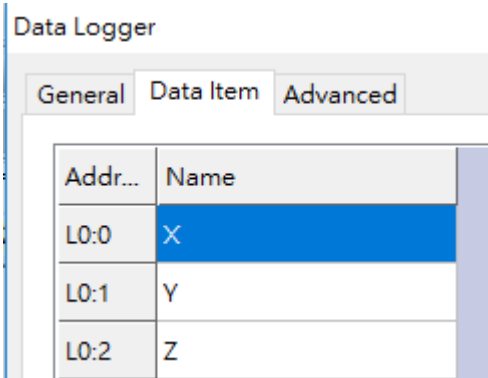# PM Designer v4.0 Setting

1. Add "Data Loggers"

(Figure 1)

2. Since the Historic Path function example here will use 3 parameters, so you have to select at least 3 words for Sample Size (Figure 2).
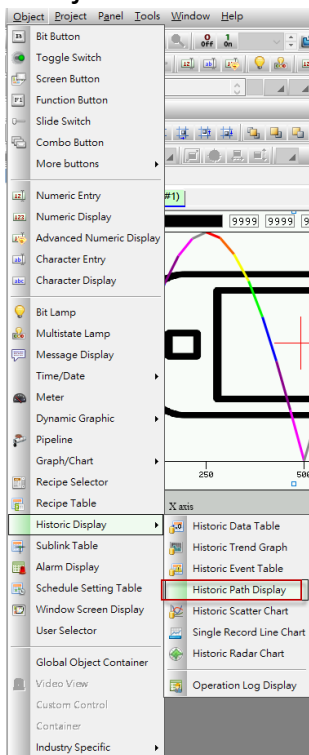

(Figure 2)

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3. Define Data (Figure 3).

- L0:0 - Define as X coordinate

- L0:1 - Define as Y coordinate

- L0:2 - Define as Z coordinate

(Figure 3)

4. Object -> Historic Display -> Historic Path Display (Figure 4).

(Figure 4)

5. Open "Historic Path Display" for the setting (Figure 5).

● Associated Data Logger: Select the data logger

● X Coordinate: Select L0:0 here for X and define Min/Max

● Y Coordinate: Select L0:1 here for Y and define Min/Max

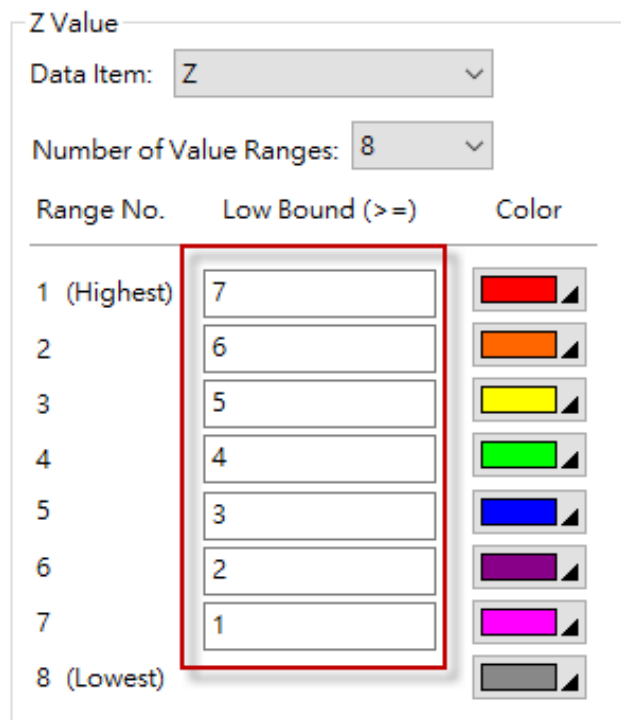● Display Quadrant: Set to 1/2/3/4 quadrant

(Figure 5)

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6. Z Value: Select L0:2 for Z coordinate and set curve color(up to 8 colors).
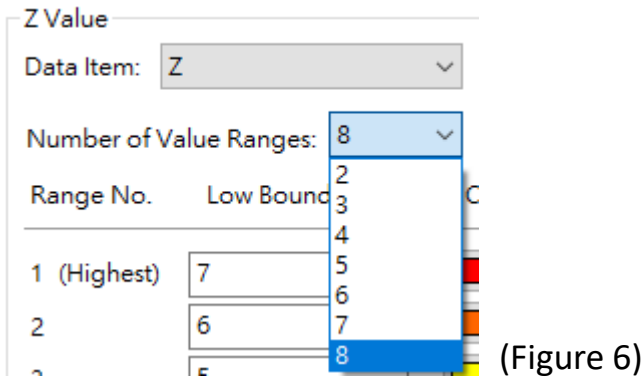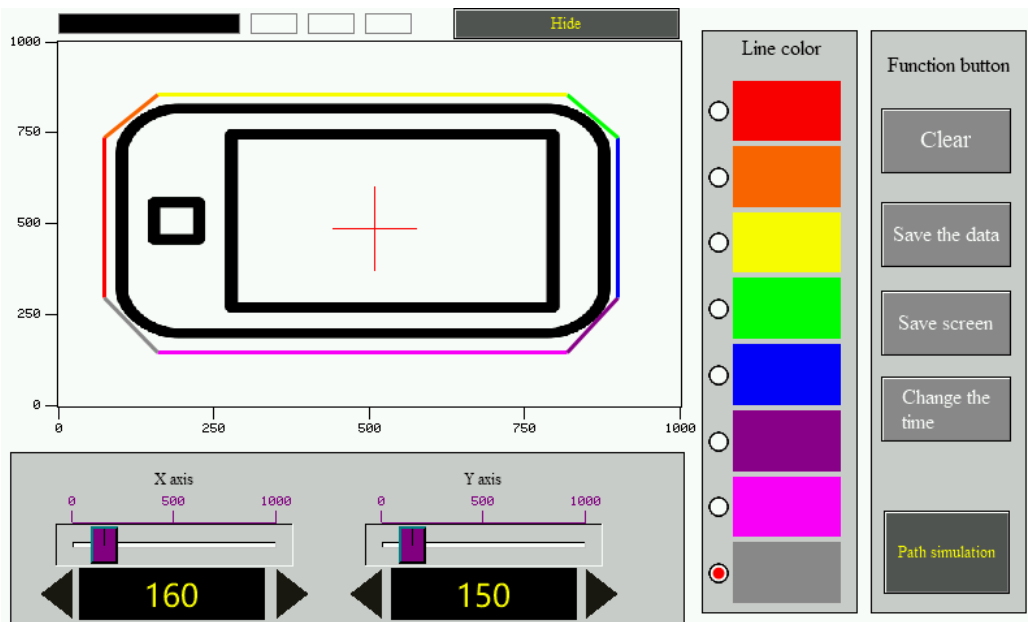

(Figure 6)

7. Define each Color and corresponding Low Bound (Figure 7).

(Figure 7)

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Real Case (Figure 8)

Historic Path function used on cutting machine, different colors mean defined pressure value, which is to monitor the cutting path to make efficient and effective production.

(Figure 8)

Technical Support Information

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