How to view the interface parameters of the FC in a PLC



Overview

This video introduces how to monitor the inside of the Function Block (FB) or Function (FC) in a specific call in Siemens TIA Portal for online logic troubleshooting. The program in S7-1500 and S7-300 CPU are demonstrated. In Part 1 of this series, I walked through the basic hardware configuration for a Siemens S7–1500 PLC setup in TIA Portal — adding a CPU, configuring IO modules, and assigning addresses. The blocks process the parameters and return values to the caller through the IN/OUT and OUT interface types. The user program transfers parameters. A function (FC) is a code block that typically performs a specific operation on a set of input values. For example, use FCs to perform standard and reusable operations (such as for mathematical calculations) or technological functions. This indicates the FlueGasFan is a Profibus-connected device where: The code demonstrates both addressing methods: Symbolic addressing is preferred in modern S7 programming as it: Based on the parameter names, FC300 (PB_NP) likely has the following interface definition: The function handles. TIA Portal: Function (FC) Explained Step by Step | Beginner to Advanced Guide In this video, you will learn Function (FC) in TIA Portal from basic to practical level with clear TIA Portal: Function (FC) Explained Step by Step | Beginner to Advanced GuideIn this video, you will learn Function (FC). If starting with a clean sheet of paper, functions should be given input parameters and return a value. There does seem to be slight variations in some PLC manufacturers in the difference between FC (FUN) & FB (FUN BLOCK), in the case of Siemens I suggest.

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Article Content

Getting Started With Function (FC) Programming in TIA Portal

In Part 1 of this series, I walked through the basic hardware configuration for a Siemens S7–1500 PLC setup in TIA Portal — adding a CPU, configuring IO modules, and assigning addresses.

Passing parameters to blocks

FBs and FCs receive parameters through the IN and IN/OUT interface types. The blocks process the parameters and return values to the caller through the IN/OUT and OUT interface types.

Function (FC)

A function (FC) is a code block that typically performs a specific operation on a set of input values. The FC stores the results of this operation in memory locations.

What should you watch out for in STEP 7 (TIA Portal) when

Writing a parameter in the called block does not lead to modification of the actual parameter in the calling block. Read access accesses the formal parameter, not the actual

Siemens STL CALL FC Parameters: Interpreting Direct Addressing

Understanding Siemens STL CALL FC Syntax In Siemens S7 STL (Statement List) programming, the CALL instruction invokes a Function (FC) or Function Block (FB) with actual

TIA Portal || Function (FC) || Explained Step by Step

TIA Portal: Function (FC) Explained Step by Step | Beginner to Advanced Guide In this video, you will learn Function (FC) in TIA Portal from basic to practical level with clear explanation and...

Siemens S7 TIA Portal

That said, using external parameters that are both inputs and outputs ("InOut" parameters in some languages) could make something work with an FC, where those external persistent

SC14. Monitor FB or FC in a Specific Call in Siemens TIA Portal ...

This video introduces how to monitor the inside of the Function Block (FB) or Function (FC) in a specific call in Siemens TIA Portal for online logic troubleshooting.

Understanding Function Block Instances (Single, Multi and

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In this tutorial, we will be looking at the different types of function block instances that can be used in PLC programming using Siemens TIA Portal.

Basics of FC Programming with SIMATIC S7-1200

In this article, we''ll explore the basics of Function (FC) programming with SIMATIC S7-1200, one of the key elements in creating efficient and reliable automation solutions.

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33rd Annual Congress of the EAES from June 17 to 20, 2025 in

Aim: This study investigates surgeons'' preferences to optimize the user experience and interface of the CVS Copilot, an AI-powered real-time intraoperative device to assess and improve

SIEMENS S7-1200 PROGRAMMING MANUALLINE

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Getting Started With Function (FC) Programming in TIA Portal

An FC (Function) is a reusable, stateless block of logic in TIA Portal. It has no internal memory (unlike FBs) and must receive its inputs and outputs during each call.

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