



在 FM 357-2 和面板或运行系统(ProTool、WinCC flexible)之间进行直接数据通讯有哪些可用选项？

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6AV3607-1JC..	SIMATIC Operator Panel OP7
6AV3617-1JC..	SIMATIC Operator Panel OP17
6AV3627-1..	SIMATIC Operator Panel OP27 / TP27
6AV3637-1..	Operator / Touch Panel OP/TP37
6AV6542..	SIMATIC Panel
6AV6545-0AG..	Multi Panel MP 270B Touch
6AV6545-0AH..	Multi Panel MP 270B Touch
6AV6545-0B..	Operator Panel TP 170
6AV6545-0C..	Touch Panel TP 270
6AV6545-0D..	Multi Panel MP 370
6AV6582..	SIMATIC PROTOOL/PRO
6AV6584..	SIMATIC PROTOOL/PRO 2
6AV6613-0AA01-0AA0	SIMATIC WinCC flexible 2004 Advanced
6AV6613-0AA01-1CA5	WINCC FLEXIBLE 2005 ADVANCED
6ES7357	FM 357
6ES7357-4AH00-0AE0	FM357 6ES7357-4AH00-0AE0 S7
6ES7357-4AH01-0AE0	FM357-2 6ES7357-4AH01-0AE0 S7

组态注意事项：

可以在 FM 357-2 和面板或者运行系统(ProTool, WinCC flexible)之间进行直接数据通讯。但是，具体情况下直接数据通讯可采用何种机制取决于操作员面板。

1. 将 FM 数据“映射”到 S7 CPU 中(适用于所有操作员面板)
FM 的变量(也即 R 参数)可以被传送到 S7 CPU 的存储器中，然后由操作员面板读出。使用 NC-VAR-Selector 工具可将变量传送到 CPU 的一个 DB 中。这是 FM 357 组态包中的一个组件。
2. 在 FM 357-2 和操作员面板之间进行直接数据交换
可用的 HMI 创建系统(ProTool 或 WinCC flexible)取决于使用的操作员面板。

操作员面板	FM 和操作员面板之间的数据通讯
行显示设备： OP7 / OP17 (只能使用 ProTool) (通过 PROFIBUS 通讯只能使用 OP7 / OP17 DP)	<ul style="list-style-type: none"> • 特殊功能如显示子程序以及选择 NC 程序 • 直接访问以及符号化组态 FM 的所有数据类型 • 所用协议 ¹⁾：SIMATIC S7 - NC
图形化设备： OP/TP 27, OP/ TP37 (只能使用 ProTool)	<ul style="list-style-type: none"> • 没有特殊功能可用 • 仅通过数据块访问 FM，使用 NC-Var-Selector 计算地址 • 所用协议 ¹⁾：SIMATIC S7-300/400
基于 Windows CE 的操作员面板： 170 系列； 270 系列； 370 系列； (上述设备的 A 版本不支持数据通	对于 ProTool： <ul style="list-style-type: none"> • 没有特殊功能可用 • 直接访问以及符号化组态 FM 的所有数据类型 • 所用协议 ¹⁾：SIMATIC S7 - NC 对于 WinCC flexible：



讯)	<ul style="list-style-type: none"> 特殊功能如显示子程序以及选择 NC 程序 直接访问以及符号化组态 FM 的所有数据类型 所用协议 ¹⁾: SIMATIC S7 - NC <p>(SIMATIC S7-NC 协议需要 SINUMERIK 选件包)</p>
RT 软件: ProTool/Pro RT, WinCC flexible RT	<ul style="list-style-type: none"> 没有特殊功能可用 仅通过数据块访问 FM, 使用 NC-Var-Selector 计算地址 所用协议 ¹⁾: SIMATIC S7-300/400

¹⁾ 通过下列路径设置协议 ...

在 ProTool 中, 通过"Controllers->Protocol"菜单命令;

在 WinCC flexible 中, 通过"Communication->Connections->Communication Drivers"菜单命令。

关键字:

TP170、OP170、MOBILE Panel 170、OP270、TP270、MP270、MP370、ProTool Lite、SIMATIC HMI、通讯、连接、链路

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What options are there for direct data communication between an FM 357-2 and a panel or Runtime (ProTool, WinCC flexible)?

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6ES7357	FM 357
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6ES7357-4AH01-0AE0	FM357-2 6ES7357-4AH01-0AE0 S7

Configuration Notes:

Direct data communication between an FM 357-2 and a panel or Runtime (ProTool, WinCC flexible) is possible. However, it depends on the operator panel in each case as to which mechanisms are available for direct data communication.

1. "Mirroring" the FM data in the S7 CPU (for all operator panels)

The variables (also R parameters) of the FM can be transferred to the memory of the S7 CPU and then read out by the operator panel. The variables are transferred into a DB of the CPU with the NC-VAR-Selector tool. This is a component of the FM 357 configuration package.



2. Direct data communication between the FM 357-2 and the operator panel

The HMI creation system to be used (ProTool or WinCC flexible) depends on the operator panel used.

Operator panel	Data communication between FM and operator panel
Line devices: OP7 / OP17 (only with ProTool) (communication via PROFIBUS can only be made with an OP7 / OP17 DP.)	<ul style="list-style-type: none"> • Special functions like display of subprograms and selection of NC programs • Direct access and symbolic configuration of all data types of the FM • Protocol used ¹⁾: SIMATIC S7 - NC
Graphics devices: OP/TP 27, OP/ TP37 (only with ProTool)	<ul style="list-style-type: none"> • No special functions available • Access to the FM only via data blocks, calculation of addresses with NC-Var-Selector • Protocol used ¹⁾: SIMATIC S7-300/400
Windows CE-based operator panels: 170 series, 270 series, 370 series (Data communication with A versions of the above devices is not possible.)	<p>With ProTool:</p> <ul style="list-style-type: none"> • No special functions available • Direct access and symbolic configuration of all data types of the FM • Protocol used ¹⁾: SIMATIC S7 - NC <p>With WinCC flexible:</p> <ul style="list-style-type: none"> • Special functions like display of subprograms and selection of NC programs • Direct access and symbolic configuration of all data types of the FM • Protocol used ¹⁾: SIMATIC S7 - NC <p>(The SIMATIC S7-NC protocol requires the SINUMERIK options package.)</p>
RT software: ProTool/Pro RT, WinCC flexible RT	<ul style="list-style-type: none"> • No special functions available • Access to the FM only via data blocks, calculation of addresses with NC-Var-Selector • Protocol used ¹⁾: SIMATIC S7-300/400

¹⁾ The protocol is set ...
 in ProTool under "Controllers->Protocol",
 in WinCC flexible under "Communication->Connections->Communication Drivers".

Keywords:

TP170, OP170, MOBILE Panel 170, OP270, TP270, MP270, MP370, ProTool Lite, SIMATIC HMI, Communication, Connection, Link

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