

SIEMENS



SIMATIC

S7-1500 / ET 200MP

Модуль ввода аналоговых сигналов AI 8xU/I HF (6ES7531-7NF00-0AB0)

Руководство

03/2016

Ответы для промышленности

SIMATIC

S7-1500/ET 200MP

Модуль ввода

аналоговых сигналов

AI 8xU/I HF

(6ES7531-7NF00-0AB0)




Руководство

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Информация

Система предупредительных надписей

В данном руководстве представлены предупреждения, которые следует учитывать, чтобы обеспечить личную безопасность и предотвратить возможные повреждения имущества. Предупредительные надписи, относящиеся к личной безопасности, имеют специальный предупреждающий символ, в отличие от надписей, относящихся только к повреждению имущества. Такие предупреждения различаются по степени опасности, как указано ниже.

 ОПАСНО
указывает на смертельный исход или серьезные травмы, если не приняты надлежащие меры безопасности
 ПРЕДУПРЕЖДЕНИЕ
указывает на возможность смерти или серьезных травм, если не приняты надлежащие меры безопасности.
 ВНИМАНИЕ
указывает на возможность получения легких травм, если не приняты надлежащие меры безопасности.
ПРИМЕЧАНИЕ
указывает на возможность повреждения имущества, если приняты надлежащие меры безопасности.

При наличии более одной степени опасности используется предупредительная надпись, указывающая на максимальную степень опасности. Надпись, предупреждающая о возможности травм и имеющая соответствующий предупреждающий символ, также может указывать на возможность повреждения имущества.


Квалифицированный персонал

Продукты и системы, описанные в настоящей документации, должны использоваться только персоналом, имеющим соответствующий **уровень квалификации** для выполнения конкретной задачи, в соответствии с указанными в документации предупредительными надписями и инструкциями по технике безопасности.

Квалифицированный персонал – это лица, прошедшие обучение и имеющие навык определения рисков и предотвращения потенциальных опасностей при работе с такими продуктами или системами, на основании полученного профессионального опыта.

Надлежащее использование продуктов Siemens

Следует иметь в виду следующее:

 ПРЕДУПРЕЖДЕНИЕ
Продукты компании Siemens могут использоваться только в целях, указанных в каталоге и соответствующей технической документации. Условия применения изделий и комплектующих других производителей должны быть рекомендованы или согласованы с компанией Siemens. Для обеспечения надлежащей безопасной эксплуатации продуктов и во избежание неисправностей следует соблюдать требования к транспортировке, хранению, установке, монтажу, пуску в эксплуатацию и техническому обслуживанию. Допустимые условия внешней среды должны соответствовать изложенным в настоящем документе инструкциям. Следует соблюдать указания, приведенные в соответствующей документации.

Торговые знаки

Все названия, сопровождаемые символом ®, являются зарегистрированными торговыми знаками компании Siemens AG. Третьи лица, использующие в своих целях прочие наименования, встречающиеся в настоящем документе и относящиеся к торговым знакам, могут быть привлечены к ответственности за нарушение прав владельцев торговых знаков.

Ответственность

Мы проверили содержание этого руководства на соответствие с описанным аппаратным и программным обеспечением. Поскольку отклонения не могут быть полностью исключены, мы не можем гарантировать полное соответствие. Однако информация данного руководства регулярно просматривается, и необходимые изменения включаются в последующие издания.

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Предисловие

Назначение данной документации

Настоящее Руководство по эксплуатации устройства дополняет руководство по системе станции распределенного ввода/вывода S7-1500/ET 200MP (<http://support.automation.siemens.com/WW/view/en/59191792>)

В этих документах описаны функции, относящиеся к работе системы в целом.

Информация, приведенная в настоящем документе и в Руководствах по системе и по эксплуатации, необходима для ввода системы в эксплуатацию

Соглашения

Термин “CPU”, используется в данном руководстве как для обозначения центрального процессора Системы автоматизации S7-1500, так и для интерфейсных модулей системы распределенного ввода-вывода ET 200MP.

Обратите внимание на следующие пометки:

Особые указания

В примечаниях содержится важная информация об описываемом изделии, об обращении с этим изделием или указывается раздел документа, на который необходимо обратить особое внимание.

Замечание об информационной безопасности

Компания Siemens предлагает надежные продукты и решения с использованием функций промышленной безопасности, которые обеспечивают безопасное функционирование предприятий, машин, оборудования и/или сетей. Эти функции являются важными компонентами концепции комплексной промышленной безопасности.

Продукты и решения Siemens непрерывно совершенствуются, учитывая ее требования. Настоятельно рекомендуется регулярно проверять обновления продуктов Siemens.

Для обеспечения безопасной эксплуатации продуктов и решений Siemens необходимо принять дополнительные меры (например, с помощью сегментации сети) и интегрировать каждый компонент в комплексную систему безопасности. Также необходимо рассмотреть использование продуктов сторонних производителей.

Необходимую информацию о промышленной безопасности Вы можете найти в Интернете: (<http://www.siemens.com/industrialsecurity>).

Чтобы постоянно быть в курсе выпускаемых обновлений продуктов, подпишитесь на рассылку новостей для конкретного продукта. Необходимую информацию Вы можете найти в Интернете: (<http://support.automation.siemens.com>).

Программное обеспечение с открытым исходным кодом (Open Source Software)

Программное обеспечение с открытым исходным кодом (Open Source Software) использовано в операционной системе описываемого изделия. Такое программное обеспечение предоставляется бесплатно. Мы несем ответственность за описываемое в данном руководстве изделие, в том числе и за содержащееся в нем программное обеспечение с открытым исходным кодом, в соответствии с условиями, применимыми к продукту. Siemens не несет никакой ответственности за использование программного обеспечения с открытым исходным кодом вне пределов пользовательской программы или за возникновение каких-либо неисправностей, вызванных из-за изменений в программном обеспечении.

По юридическим причинам, мы обязаны публиковать исходный текст лицензионных соглашений и уведомления об авторских правах. Пожалуйста, прочтите соответствующую информацию в приложении к данному руководству.

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1. Путеводитель по документации

Комплект документации для системы автоматизации SIMATIC ET 200MP систематизирован по трем областям.

Эта систематизация позволяет вам быстро найти требуемую информацию.



Основная информация

Системные руководства и Начало работы детально описывают конфигурирование, монтаж, подключение и ввод в эксплуатацию систем SIMATIC S7-1500 и ET 200MP. Для центрального процессора CPU 1516pro-2 PN вы можете использовать соответствующую инструкцию по эксплуатации. Он-лайн справка по языку STEP 7 поможет вам при конфигурировании и программировании устройств.

Информация об устройстве

Руководство содержит компактное описание характеристик модуля, таких как свойства, схема подключения, характеристики, технические спецификации.

Основные сведения

Руководство по работе с основными функциями устройства содержит детальное описание работы системы распределенного ввода-вывода SIMATIC ET 200MP, например, диагностики, коммуникаций, Web-сервер, проектирование систем противоаварийной защиты.

Вы можете загрузить документацию через Интернет бесплатно по ссылке <http://w3.siemens.com/mcims/industrial-automation-systems-simatic/en/manual-overview/tech-doc-et200/Pages/Default.aspx>

Изменения и дополнения в Руководства отражены в «информационных сообщениях о продукте».

Вы можете бесплатно скачать информацию о продукте в интернете по ссылке <https://support.industry.siemens.com/cs/us/en/view/68052815>

Сборник руководств по системам S7-1500 и ET 200MP

Сборник руководств содержит полную информацию по системе автоматизации SIMATIC S7-1500 и системе распределенного ввода/вывода ET 200MP, собранную в одном файле. Вы можете найти данный сборник руководств в сети Интернет по ссылке <http://support.automation.siemens.com/WW/view/en/86140384>

Таблица для сравнения языков программирования в SIMATIC S7-1500

Эта таблица содержит обзоры инструкций и функций, которые вы можете использовать для того или иного семейства контроллеров, собранные в один файл.

Таблица для сравнения языков программирования находится в сети интернет по адресу <https://support.industry.siemens.com/cs/ww/en/view/86630375>

Система поддержки пользователя «mySupport».

В системе поддержки пользователя «mySupport» в вашем персональном кабинете вы можете получить максимальные возможности он-лайн поддержки промышленной продукции Siemens.

В «mySupport» вы можете сохранять фильтры, избранное ключевые слова, запросы данных САх и организовывать персональные библиотеки избранных документов. Кроме того, сохраняются результаты всех ваших запросов, и вы можете вернуться к ним в любое время.

Перед началом использования «mySupport» необходима регистрация для получения доступа ко всем функциям системы.

Вы можете найти раздел «mySupport» в сети интернет по адресу <https://support.industry.siemens.com/My/ww/ru/>

Документация «mySupport».

В области отображения документации системы «mySupport» вы можете комбинировать целые Руководства или их части для создания собственных справочников.

Вы можете экспортировать документ в формат PDF или в другой формат для последующего редактирования.

Вы можете найти Персональный Менеджер Документации в сети Интернет по ссылке <https://support.industry.siemens.com/my/ru/ru/documentation>

”mySupport” – данные CAx

Раздел данные CAx системы «mySupport» используется для доступа к сведениям о данном продукте для систем CAx или CAe.

Вы можете сконфигурировать запрос собственного пакета данных для скачивания в несколько кликов.

При этом вы можете выбрать:

- Изображения продуктов, 2D габаритные чертежи, 3D модели, электрические схемы, макросы, созданные на платформе EPLAN.
- Справочники, характеристики, руководства по эксплуатации, сертификаты
- Основные технические данные продукта

Вы можете найти раздел ”mySupport” – данные CAx

по ссылке <http://support.industry.siemens.com/my/ww/en/CAxOnline>.

Прикладные примеры

Раздел «Прикладные примеры» («Application examples») помогает вам в решении различных задач по автоматизации. Предложены решения для взаимодействия между несколькими компонентами системы, без акцента на отдельные продукты.

Вы можете найти раздел «Прикладные примеры» по ссылке:

(<https://support.industry.siemens.com/sc/ww/en/sc/2054>).

Tia Selection Tool

С помощью TIA Selection Tool Вы можете выбирать, конфигурировать и заказывать устройства для Totally Integrated Automation (полностью интегрированная автоматизация). TIA Selection Tool предоставляет вам помощника для выбора желаемых устройств и сетей. Кроме того, в вашем распоряжении имеются средства конфигурирования для выбора модулей и принадлежностей, а также для проверки правильного функционирования. На основе вашего выбора или вашей конфигурации изделий TIA Selection Tool составляет полный список для заказа.

Вы можете найти TIA Selection Tool на сайте

(<http://w3.siemens.com/mcms/topics/en/simatic/tia-selection-tool>).

SIMATIC Automation Tool

Этот программный пакет позволяет запускать в эксплуатацию и обслуживать одновременно нескольких станций системы SIMATIC S7. При этом нет необходимости использовать пакет TIA Portal.

SIMATIC Automation Tool поддерживает множество функций:

- Сканирование сети PROFINET/Ethernet для поиска всех подключенных CPU
- Присвоение параметров (IP-адреса, настройка подсетей, шлюзов) имени устройства в CPU
- Синхронизация даты и времени в программируемом устройстве и PG/PC (Программатор/ПК)
- Загрузка программы в CPU
- Перевод CPU в режим RUN/STOP
- Обнаружение CPU по миганию светодиода
- Считывание информации об ошибках CPU
- Считывание диагностического буфера CPU
- Сброс на заводские настройки
- Обновление программного обеспечения CPU и подключенных модулей

Вы можете найти дополнительную информацию по пакету SIMATIC Automation Tool в сети интернет по адресу <https://support.industry.siemens.com/cs/ww/en/view/98161300>.

PRONETA

Утилита SIEMENS PRONETA (PROFINET network analysis) предназначена для анализа конфигурации сетей PROFINET в процессе ввода в эксплуатацию.

PRONETA имеет две основные функции:

- Автоматическое сканирование сети PROFINET и отображение топологии всех подключенных устройств.
- IO check (проверка ввода-вывода) - быстрый тест модулей и правильности подключений компонентов системы

Вы можете найти утилиту SIMENS PRONETA в интернет по адресу

<https://support.industry.siemens.com/cs/ww/en/view/67460624>.

2. Обзор продукта

2.1. Свойства

Номер для заказа

6ES7531-7NF00-0AB0

Общий вид модуля

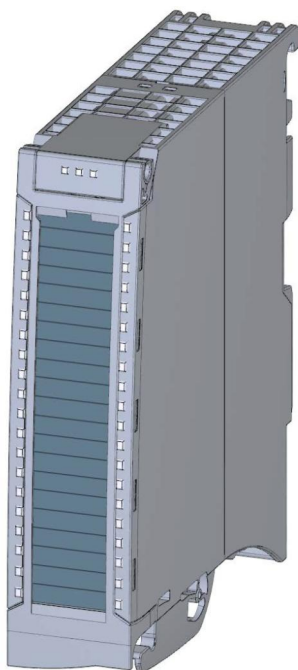


Рисунок 2-1 Общий вид модуля AI 8xU/I HF

Свойства

Модуль имеет следующие технические характеристики:

- Модуль ввода аналоговых сигналов на 8 входов, электрически изолированных друг от друга
- Каждый канал может быть настроен на измерение напряжения
- Каждый канала может быть настроен на измерение тока
- Два режима работы:
 - Быстрый (Fast): наименьшее время интеграции 2,5 мс
 - Стандарт (Standart): наименьшее время интеграции 7,5 мс
- Разрешение 16 бит, включая знак
- Настраиваемая диагностика (на модуль)
- Для канала могут быть заданы аппаратные прерывания по выходу за допустимый диапазон (по две верхних и нижних границы допустимых диапазонов)

Модуль поддерживает следующие функции:

Таблица 2-1 Версии модуля в зависимости от других его функций

Функция	Версия прошивки модуля	Проектное ПО	
		STEP 7 (TIA Portal) начиная с V13 SP1 и HSP 0166	Файл GDS в STEP7 (TIA Portal) версия 12 и выше или STEP версия 5.5 SP3 и выше
Обновление прошивки	Версия 1.0.0 и выше	X	--- / X
Идентификационные данные по установке и обслуживанию от I&MO до I&M3	Версия 1.0.0 и выше	X	X
Назначение параметров в режиме RUN	Версия 1.0.0 и выше	X	X
Поддержка функций общих каналов ввода (MSI)	Версия 1.0.0 и выше	X (только PROFINET IO)	X (только PROFINET IO)
Конфигурируемые submodule / submodule для общего устройства (Shared Device)	Версия 1.0.0 и выше	X (только PROFINET IO)	X (только PROFINET IO)

Конфигурирование модуля можно выполнить в среде STEP 7 (TIA Portal) и при помощи файла GDS.

Аксессуары

Следующие аксессуары входят в стандартный комплект поставки и могут быть заказаны отдельно:

- Кабельный зажим для экранированного кабеля
- Экранирующий элемент
- Клемма питания
- Маркировочные этикетки
- U-образный соединитель
- Универсальная фронтальная дверца.

Другие компоненты

Следующие аксессуары не входят в стандартный комплект поставки и должны быть заказаны отдельно:

Фронтальные штекеры с групповыми перемычками и хомутом для кабеля

Дополнительную информацию по принадлежностям системы распределенного ввода-вывода

S7-1500/ ET 200MP можно найти в системном руководстве

<http://support.automation.siemens.com/WW/view/en/59191792>.

3. Выполнение подключений

Этот раздел содержит блок-схему модуля AI 8xU BA и различные варианты его подключения.

Дополнительную информацию по подключению фронтальных соединителей и экранированию кабелей можно найти в разделе «Выполнение подключений» Руководства по системе для системы автоматизации S7-1500 (<http://support.automation.siemens.com/WW/view/en/59191792>).

Особые указания

Вы можете использовать и комбинировать различные варианты подключений для всех каналов.

Особые указания

Не используйте групповые перемычки, прилагаемые к фронтальному штекеру.

Используемые сокращения

В рисунках ниже используются следующие сокращения:

U_n+/U_n-	Вход напряжения для канала с номером n (только для измерений напряжения)
I_n+/I_n-	Вход тока для канала с номером n (только для измерений тока)
L+	Подключение источника питания
M	Подключение заземления

Назначение контактов разъема источника питания

Подача напряжения питания производится через разъем передней панели. Для этого используются контакты 41 (L+) и 44 (M). Передача напряжения питания на следующий модуль производится через контакты 42 (L+) и 43 (M).

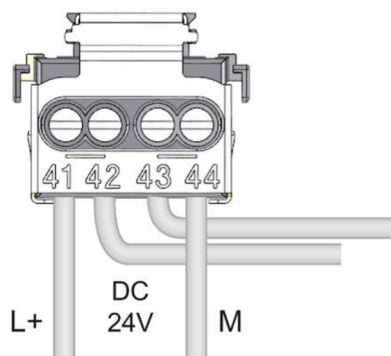
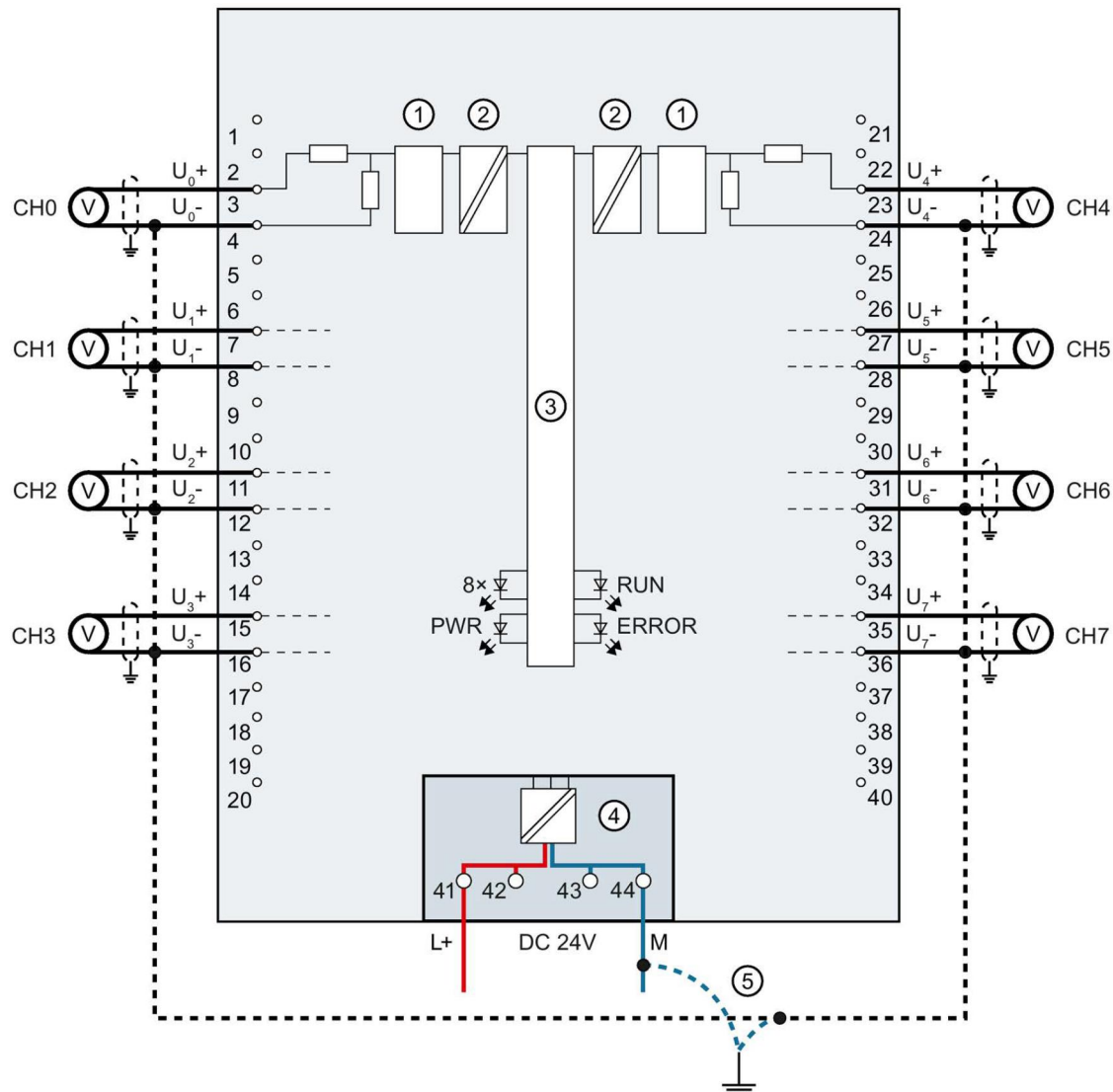


Рисунок 3-1 Подключение источника питания.

Блок-схема подключения модуля при его использовании для измерения напряжения.

Схема, показанная на следующем рисунке, демонстрирует назначение контактов для измерения напряжения.



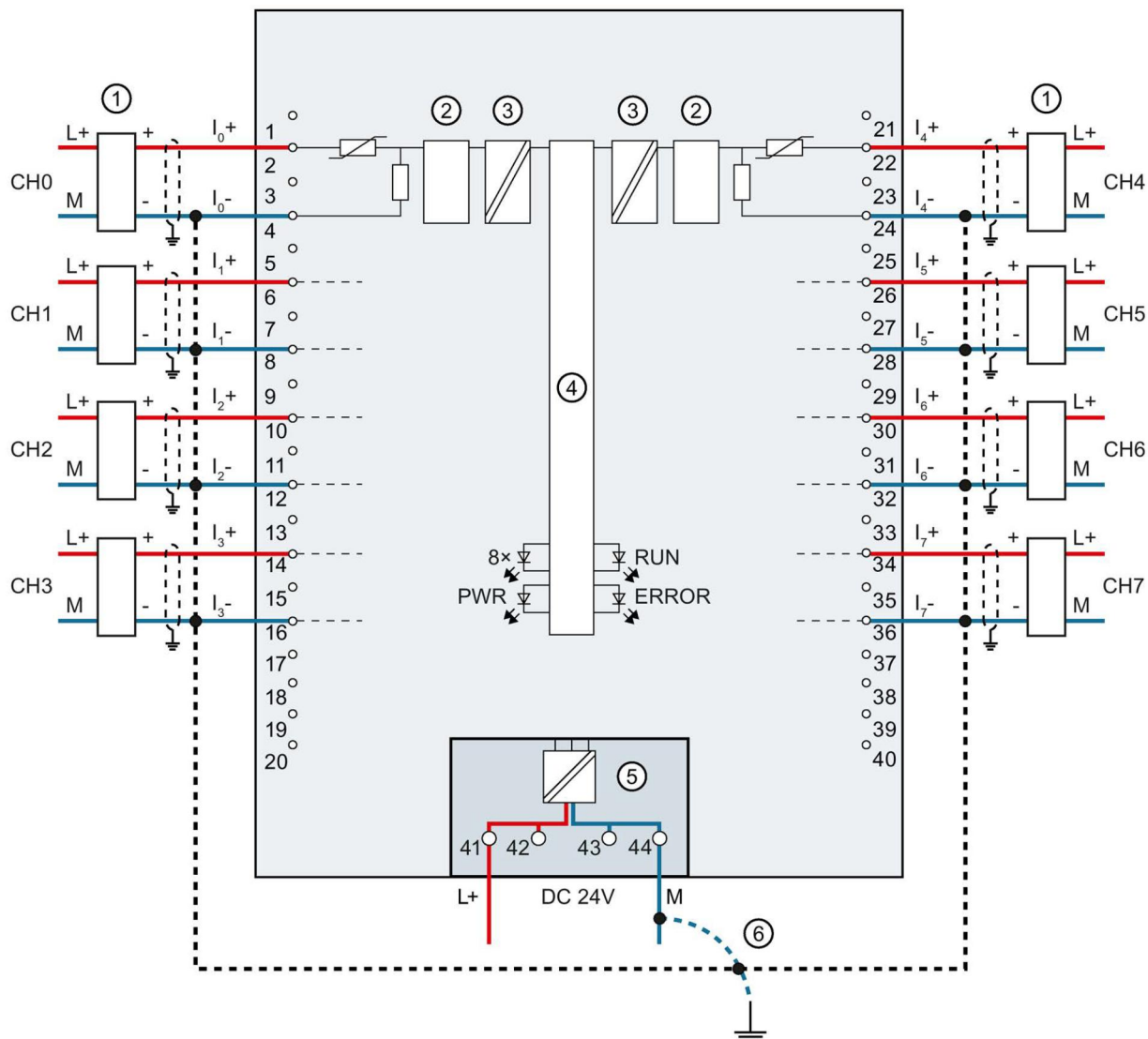
- ① Аналого-цифровой преобразователь (АЦП)
- ② Гальваническая развязка
- ③ Интерфейс задней шины
- ④ Подключение напряжения питания (от источника питания)
- ⑤ Эквипотенциальный кабель заземления (опционально)

- CHx Индикация состояния канала x (зеленый/красный)
- RUN – индикатор состояния модуля (зеленый)
- ERROR – индикатор ошибок модуля (красный)
- PWR Индикатор напряжения питания POWER (зеленый светодиод)

Рисунок 3-2 Блок-схема и подключение контактов при использовании модуля для измерения напряжения

Блок-схема подключения в режиме «4-х проводная схема для измерения тока»

Схема, показанная на следующем рисунке, демонстрирует назначение контактов для измерения тока по 4х- проводной схеме.



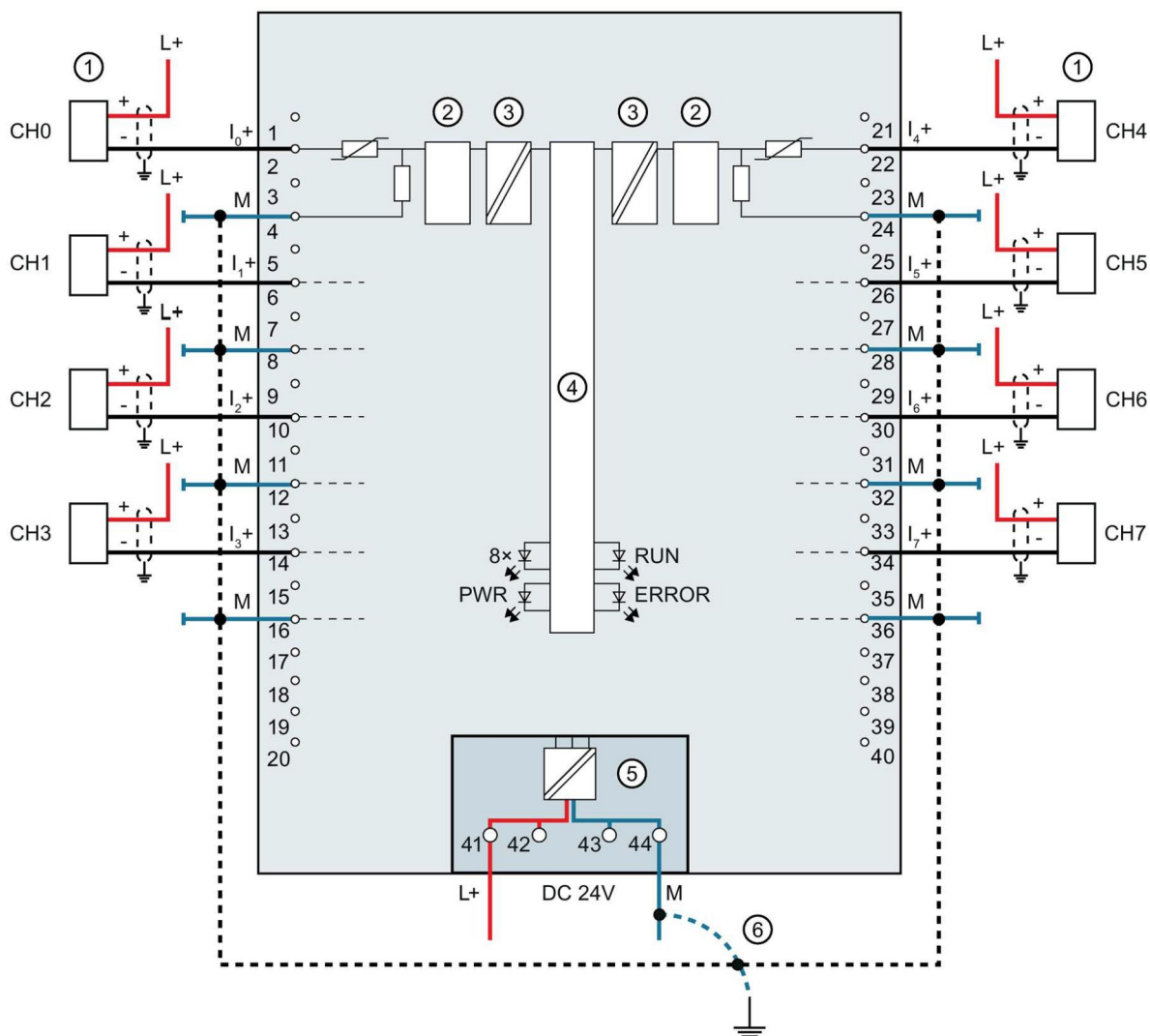
- ① Подключение 4х-проводного датчика
- ② Аналого-цифровой преобразователь (АЦП)
- ③ Гальваническая развязка
- ④ Интерфейс задней шины
- ⑤ Подключение напряжения питания (от источника питания)
- ⑥ Эквипотенциальный кабель заземления (опционально)

- CHx Индикатор состояния канала x (зеленый/красный)
- RUN – индикатор состояния модуля (зеленый)
- ERROR – индикатор ошибок модуля (красный)
- PWR Индикатор напряжения питания POWER (зеленый светодиод)

Рисунок 3-3 Блок-схема модуля и подключение контактов 4х-проводного датчика при использовании модуля для измерения тока.

Блок-схема подключения в режиме «2-ух проводная схема для измерения тока».

Схема, показанная на следующем рисунке, демонстрирует назначение контактов для измерения тока по 2- проводной схеме.



- ① Подключение 2х-проводного датчика
- ② Аналого-цифровой преобразователь (АЦП)
- ③ Гальваническая развязка
- ④ Интерфейс задней шины
- ⑤ Подключение напряжения питания (от источника питания)
- ⑥ Эквипотенциальный кабель заземления (опционально)

- CHx Индикатор состояния канала x (зеленый/красный)
- RUN – индикатор состояния модуля (зеленый)
- ERROR – индикатор ошибок модуля (красный)
- PWR Индикатор напряжения питания POWER (зеленый светодиод)

Рисунок 3-4 Блок-схема подключений и назначение контактов для измерения тока по 2-проводной схеме

4. Параметры / адресное пространство

4.1. Типы данных и диапазон измерений

Модуль по умолчанию настроен на измерение напряжения в диапазоне измерений +/- 10 В. Если требуется использовать другой диапазон или тип измерений, необходимо провести изменение параметров модуля в пакете STEP 7.

Тип измерений	Диапазон измерений
Напряжение	От 1 о 5 В ± 2,5 В ± 5 В ± 10 В
Ток 2WMT (2х-проводный датчик)	От 4 мА до 20 мА
Ток 4WMT (4х-проводный датчик)	От 4 мА до 20 мА От 0 мА до 20 мА ± 20 мА
Отключено	--

Таблицы выходных диапазонов и их связи с переполнением, незаполнением и т.п. можно найти в разделе «Представление аналоговых величин» (стр. 45).

4.2. Параметры

Параметры модуля AI 8xU/I HF

Модуль AI 8xU/I HF, как правило, уже интегрирован в каталог оборудования пакета STEP 7 (TIA Portal). В связи с этим при конфигурировании модуля пакет STEP 7 (TIA Portal) дополнительно проверяет настраиваемые параметры.

Вместе с тем, вы можете также присвоить параметры модуля с помощью файла GDS и конфигурационного ПО любого поставщика. Модуль осуществляет проверку действительности настроенных параметров только после полной загрузки конфигурации.

Когда вы настраиваете параметры модуля в пакете STEP 7, Вы можете использовать различные параметры для определения свойств модуля. В следующей таблице приведены конфигурируемые параметры.

Эффективный диапазон изменения конфигурируемого параметра зависит от типа конфигурации.

Возможны следующие конфигурации:

- Работа в централизованной системе под управлением центрального процессора системы S7-1500.
- Работа в распределенных системах в составе станции ET200MP, работающей в сети PROFINET IO
- Работа в распределенных системах в составе станции ET200MP, работающей в сети PROFIBUS DP

Передача значений параметров из программы пользователя в модуль производится с помощью инструкции WRREC посредством записей данных; см. раздел «Назначение параметров и структура записей данных параметров» (стр.40).

Параметрам могут быть присвоены следующие значения:

Таблица 4-2 Настраиваемые параметры модуля и их значения по умолчанию (GDS):

Параметр	Диапазон значений	Значение по умолчанию	Конфигурирование в режиме RUN	Область применения в конфигурационном ПО, например STEP 7(TIA Portal)	
				Интегрировано в каталог оборудования STEP 7 (TIA Portal) от V13 или файл GSD для PROFINET IO	Файл GSD для PROFIBUS DP
Диагностика					
• Отсутствие напряжения питания L+	Да/Нет	Нет	Да	Канал ¹⁾	Модуль ³⁾
• Переполнение	Да/Нет	Нет	Да	Канал	Модуль ³⁾
• Незаполнение	Да/Нет	Нет	Да	Канал	Модуль ³⁾
• Обрыв провода	Да/Нет (напряжение: 1-5В; ток: 4-20 мА)	Нет	Да	Канал	Модуль ³⁾
• Предел по току при диагностике обрыва провода	1,185 мА или 3,6 мА	1,185 мА	Да	Канал	-- ⁴⁾

Параметр	Диапазон значений	Значение по умолчанию	Конфигурирование в режиме RUN	Область применения в конфигурационном ПО, например STEP 7(TIA Portal)	
				Интегрировано в каталог оборудования STEP 7 (TIA Portal) с V13 или файл GSD для PROFINET IO	Файл GSD для PROFIBUS DP
Измерение					
• Тип измерений	См. раздел «Типы и диапазоны измерений» (стр. 18)	Напряжение	Да	Канал	Канал
• Диапазон измерений		+/- 10 В	Да	Канал	Канал
• Режим работы	Standart Fast	Standart	Да	Канал	---
• Подавление частотных помех	400 Гц 60 Гц 50 Гц 10 Гц	50 Гц	Да	Канал	Модуль
•Сглаживание	Нет/Слабое/ Среднее/ Сильное	Нет	Да	Канал	Канал
Аппаратное прерывание					
• Аппаратное прерывание при сбое по верхнему пределу 1	Да/Нет	Нет	Да	Канал	-- ⁴⁾
• Аппаратное прерывание при сбое по нижнему пределу 1	Да/Нет	Нет	Да	Канал	-- ⁴⁾
• Аппаратное прерывание при сбое по верхнему пределу 2	Да/Нет	Нет	Да	Канал	-- ⁴⁾
• Аппаратное прерывание при сбое по нижнему пределу 2	Да/Нет	Нет	Да	Канал	-- ⁴⁾

¹⁾ Если вы разрешите диагностику для нескольких каналов, вы получите большой поток сигналов об ошибке напряжения питания, т.к. каждый канал с разрешенной диагностикой будет выдавать сигнал о неисправности.

Чтобы избежать этой ситуации, включите диагностику только на одном канале.

²⁾ Если диагностика «Обрыв провода» отключена, в качестве текущего значения передается 1,185 мА. Если измеряемая величина не достигает уровня 1,185 мА, передается 0, что эквивалентно сбою.

³⁾ Активные параметры диагностики для отдельных каналов можно задать из программы пользователя с помощью записей данных с номерами от 0 до 7.

⁴⁾ Предел по току для диагностики обрыва провода и генерации прерывания можно задать, установив в программе пользователя через запись данных параметра с 0 по 7.

4.3. Описание технологических параметров

Отсутствие напряжения питания L+

Мониторинг отсутствия или недостаточного уровня напряжения питания L+.

Переполнение

Указывает на то, что выходное значение превысило максимально допустимый уровень.

Незаполнение

Указывает на то, что выходное значение оказалось меньше минимально допустимого уровня.

Обрыв провода

Указывает на отсутствие или недостаточный уровень тока для соответствующего канала или на недостаточный уровень приложенного напряжения.

Предел по току при диагностике обрыва провода

Значение, передаваемое в случае обрыва провода. Это значение может быть установлено равным 1,185 мА или 3,6 мА в зависимости от используемого датчика.

Подавление частотных помех

Эта функция обеспечивает подавление помех аналогового сигнала, обусловленных наводками со стороны используемой сети переменного тока.

Частотные помехи со стороны сети переменного тока вносят погрешность в измеряемые значения, особенно в случаях измерений низких напряжений и измерений с помощью термопар. Параметром этой функции является частота, в качестве которой рекомендуется задавать частоту сетевого электропитания, характерную для предприятия

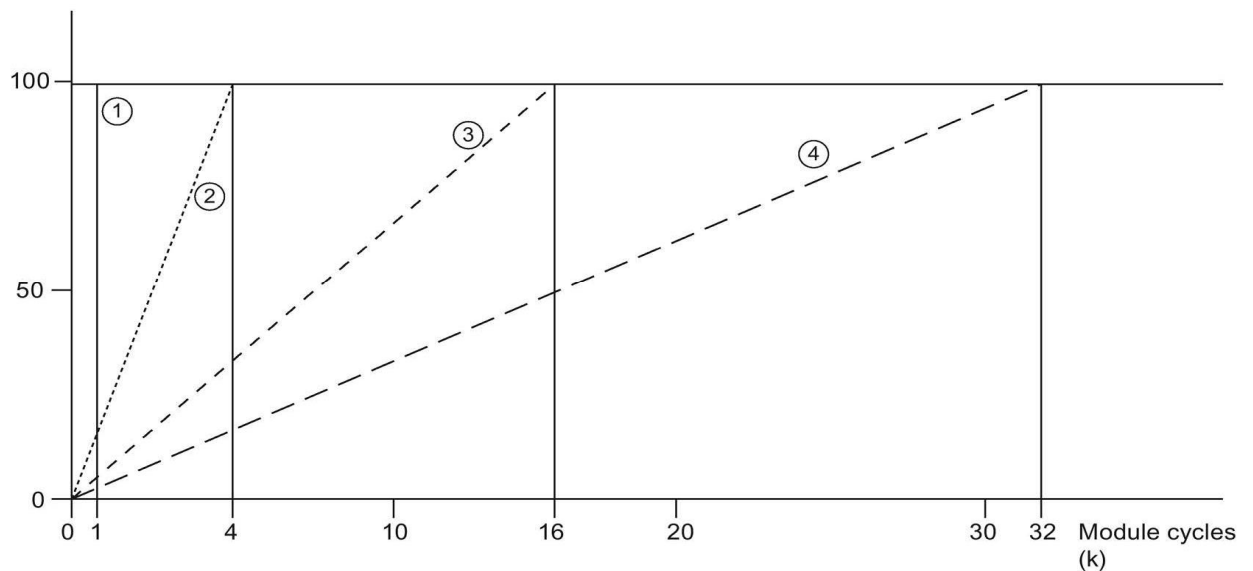
Сглаживание

Измеряемые значения подвергаются сглаживанию с помощью фильтрации. Предусмотрено 4 уровня фильтрации.

Интервал сглаживания = количество циклов модуля (k) x длительность цикла модуля.

Следующий рисунок демонстрирует зависимость времени выхода измеряемой аналоговой величины на уровень 100% от количества циклов сглаживания, заданного в конфигурации модуля. Эти зависимости одинаковы для любых изменений сигнала на аналоговом входе.

Изменение сигнала в процентах



- ① Без сглаживания (k = 1)
- ② Слабое сглаживание (k = 4)
- ③ Умеренное сглаживание (k = 16)
- ④ Сильное сглаживание (k = 32)

Рисунок 4-1 Сглаживание сигналов в модуле AI 8xU/I HF

Аппаратное прерывание 1 или 2

Вырабатывается в случае выхода за верхний предел 1 или 2 или за нижний предел 1 или 2.

Нижний предел 1 или 2

Задаёт нижний предел, при выходе за который вырабатывается аппаратное прерывание 1 или 2.

Верхний предел 1 или 2

Задаёт верхний предел, при выходе за который вырабатывается аппаратное прерывание 1 или 2.

Режим работы Fast/Standart

Этот параметр можно использовать для определения режима работы модуля.

Режим Fast: малое время интегрирования с минимальным подавлением помех напряжения (минимальное время интегрирования 2,5 мс)

Режим Standart: трехкратное время интегрирования с высоким уровнем подавления помех напряжения (минимальное время интегрирования 7,5 мс)

4.4. Пространство адресов

С помощью программного пакета STEP 7 можно задать различные конфигурации модуля; см. соответствующую таблицу. В зависимости от конфигурации размер пространства адресов и их назначение для параметров процесса могут отличаться.

Варианты конфигурации модуля AI 8xU/I HF

Вы можете конфигурировать модуль в пакете STEP 7 (TIA Portal) или при помощи файла GDS

При настройке модуля с помощью файла GSD можно выбирать различные аббревиатуры и имена модулей.

Возможны следующие конфигурации:

Таблица 4-2 Конфигурации модуля

Конфигурация	Условное обозначение/ название модуля в файле GDS Версия прошивки модуля	Область применения в конфигурационном ПО, например STEP 7 (TIA Portal)	
		Интегрировано в каталог оборудования STEP 7 (TIA Portal) начиная с V13, SP1 и HSP 0166	Файл GDS в STEP7 (TIA Portal) версия 12 и выше или STEP 7 версия 5.5 SP3 и выше
1 x 8-канальный без оценки состояния	AI 8xU/I HF	X	X
1 x 8-канальный с оценкой состояния	AI 8xU/I HF QI	X	X
8 x 1 – канальный без оценки состояния	AI 8xU/I HF S	X (только PROFINET IO)	X (только PROFINET IO)
8 x 1 – канальный с оценкой состояния	AI 8xU/I HF S QI	X (только PROFINET IO)	X (только PROFINET IO)
1 x 8 канальный с оценкой состояния для работы в режиме совместного доступа до 4х submodule	AI 8xU/I HF MSI	X (только PROFINET IO)	X (только PROFINET IO)

Оценка значения состояния (Quality Information, QI)

Этот параметр всегда активен для следующих конфигураций модуля:

- AI 8xU/I HF QI
- AI 8xU/I HF S QI
- AI 8xU/I HF MSI

Для индикации состояния модуля на каждом канале резервируется дополнительный бит. Бит значения состояния модуля указывает на соответствие состояния канала модуля установленному в пользовательской программе (0 = ошибочное состояние).

Пространство адресов модуля AI 8xU/I HF

На рисунке ниже показано распределение памяти для данных модуля при конфигурации модуля в режиме 8 канального входа.

Вы можете произвольно назначать начальный адрес модулю. Адреса каналов являются производными от начального адреса модуля.

IB x обозначает начальный адрес данных модуля x

Присвоение параметров в области отображения входов (PII)



Рисунок 4-2 Адресное пространство модуля AI 8xU/I HF для конфигурации в режиме 8ми-канального ввода с оценкой состояния

Пространство адресов при конфигурации модуля в режиме 8x1-канального входа AI 8xU/I HF S QI

В конфигурации 8 x 1-канального входа модуль рассматривается как набор субмодулей. В этом случае субмодули могут подключаться к различным контроллерам ввода-вывода.

Количество задействованных субмодулей зависит от типа используемого интерфейсного модуля. Следуйте указаниям соответствующего руководства по интерфейсному модулю.

В отличие от конфигурации 1 x 8 каналов, каждому из восьми субмодулей присваивается независимый от других начальный адрес.

Присвоение параметров в области отображения входов (PII)

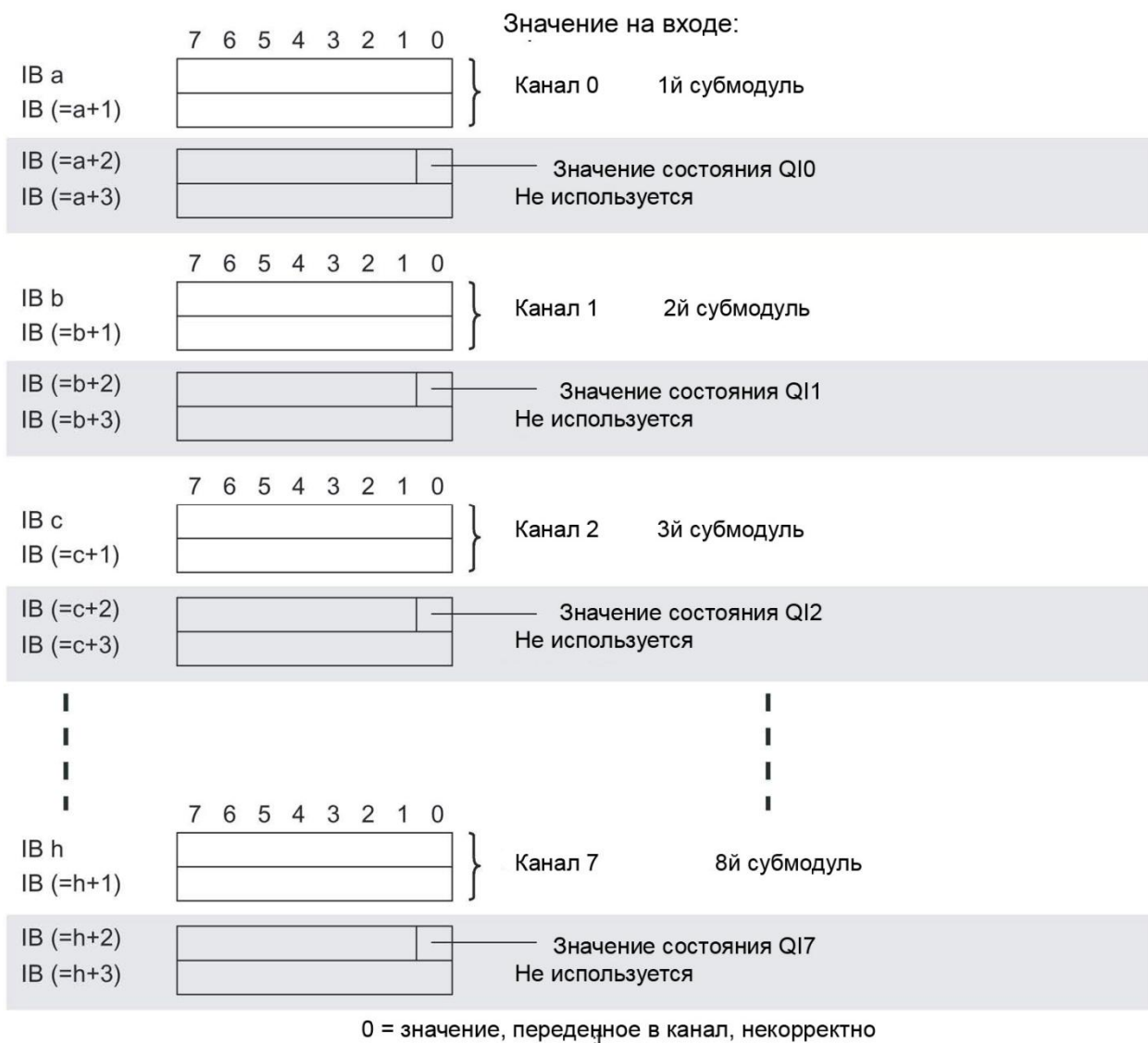


Рисунок 4-3 Пространство адресов модуля для конфигурации 8x1-канальный с оценкой состояния AI 8xU/I HF S QI

Пространство адресов при конфигурации модуля в режиме 1x8-канального входа AI 8xU/I HF MSI

Каналы модуля с номерами 0-7 представляются как четыре submodule конфигурации 1 x 8 каналов (вход с разделением внутри модуля; Module-internal shared input, MSI). При дальнейшем использовании каналы 0-7 выглядят как единый модуль ввода с несколькими submodule. В этом случае (разделяемое устройство) submodule могут подключаться к различным (до четырех) контроллерам ввода-вывода. Каждый из этих контроллеров имеет доступ на чтение к одним и тем же каналам.

Количество задействованных submodule зависит от типа используемого интерфейсного модуля. Следуйте указаниям соответствующего руководства по интерфейсному модулю.

Оценка значения состояния (Quality Information, QI)

Интерпретация оценки значения состояния зависит от submodule, с которого это значение получено.

Для первого submodule (=базовый submodule), значение состояния лишено смысла.

Для модулей со 2го по 4й (=submodule MSI) значение состояния, равное 0 показывает, что значение некорректно или базовый submodule еще не сконфигурирован (не готов к работе).

На рисунке 4-4 показано распределение адресного пространства для 1го и 2го submodule.

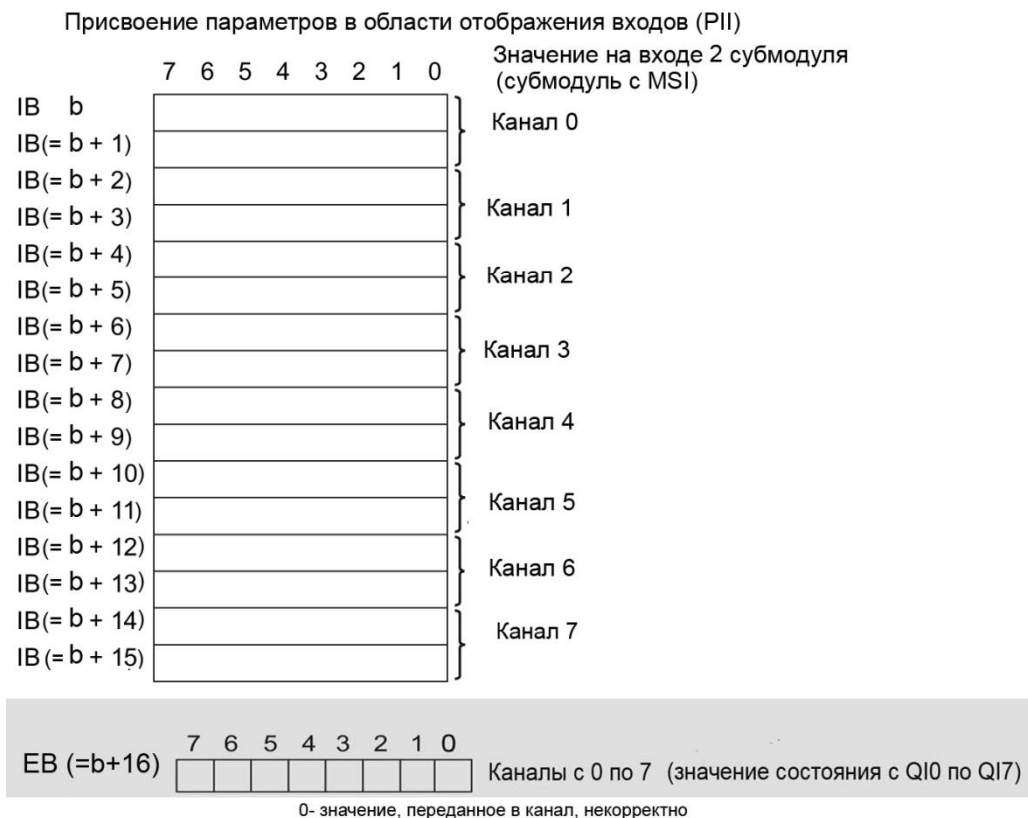
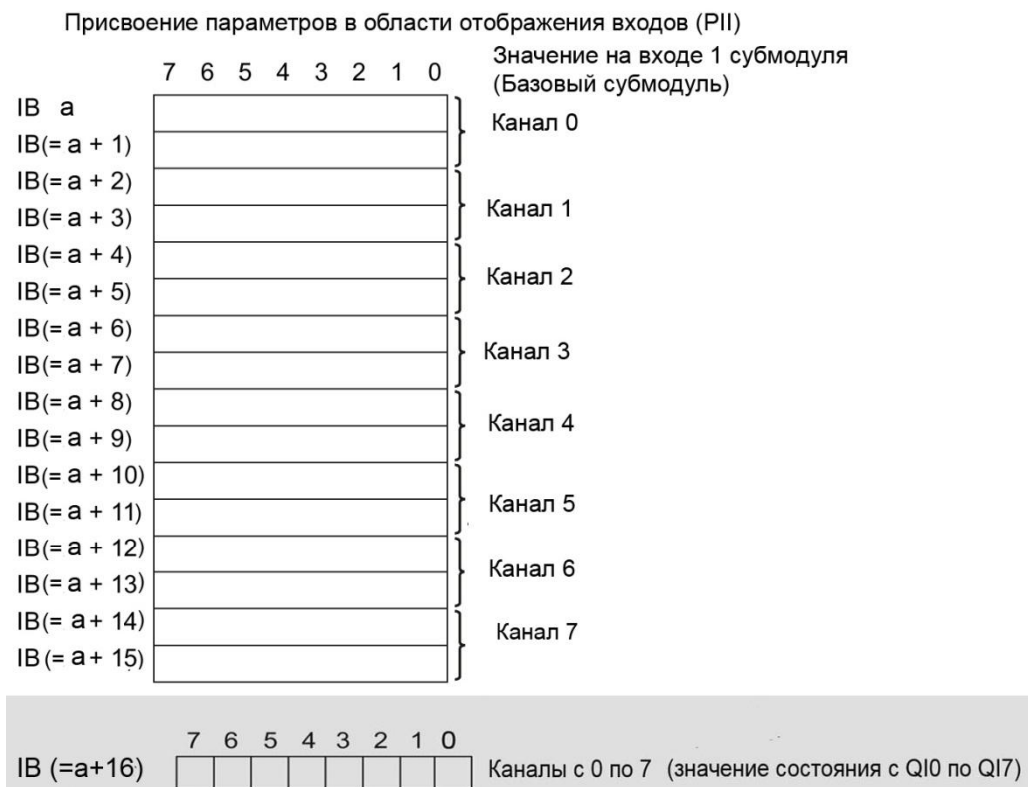


Рисунок 4-4 Адресное пространство для конфигурации 1x8 каналный AI 8xU/I HF MSI с оценкой состояния

На рисунке 4-5 показано распределение адресного пространства для 3го и 4го submodule.

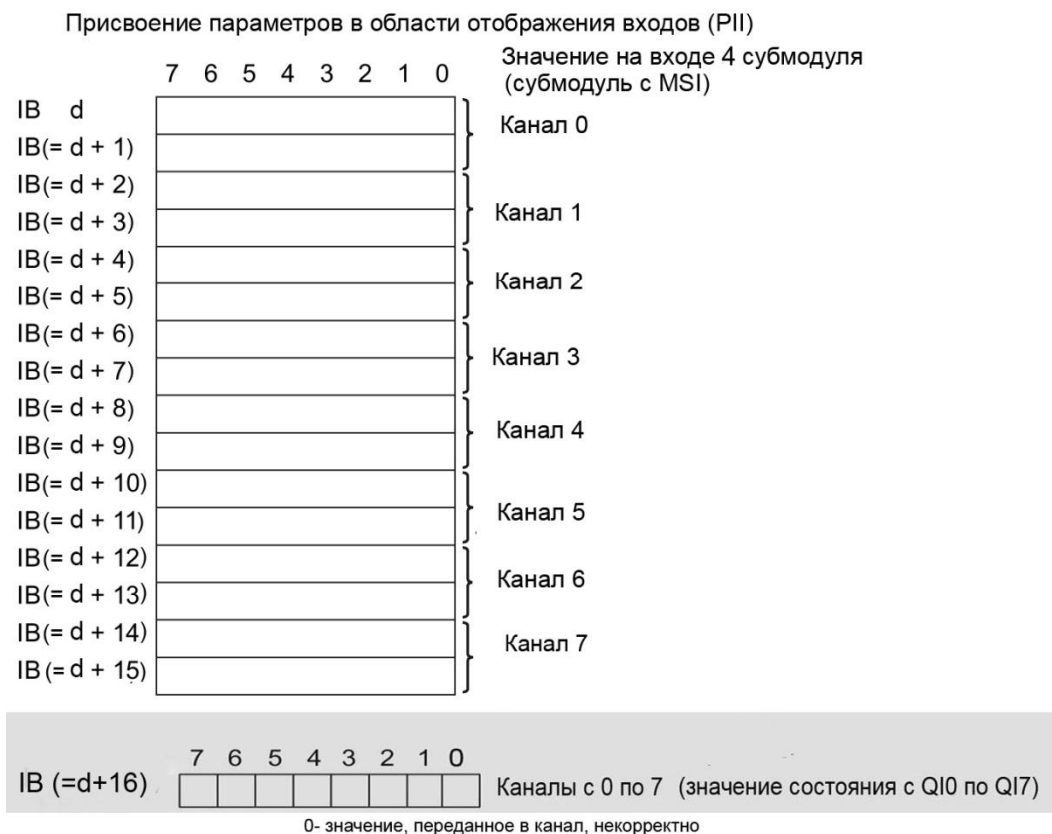
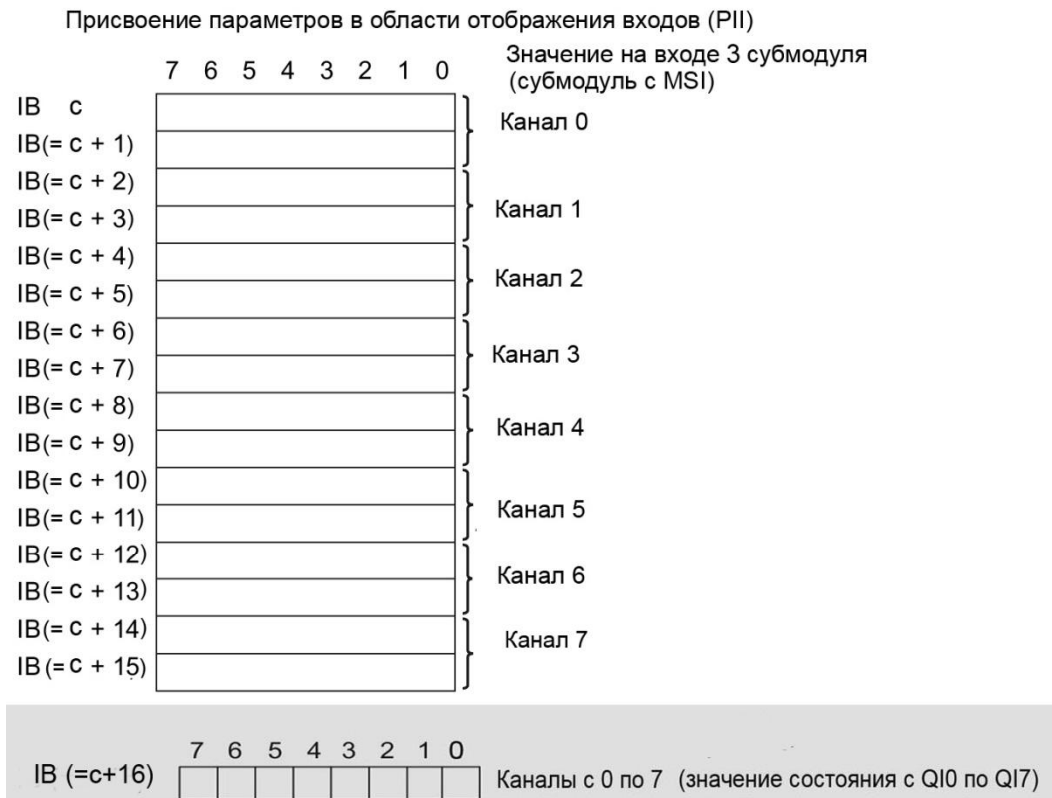


Рисунок 4-5 Адресное пространство для конфигурации 1 x 8 каналный AI 8xU/I HF MSI с оценкой состояния

Заключение

Дополнительную информацию по функции совместного ввода/вывода (MSI/MSO) можно найти в соответствующем разделе руководства по функциям системы PROFINET со STEP 7 V13 в сети интернет по адресу <https://support.industry.siemens.com/cs/ww/en/view/49948856>

5. Прерывания / диагностические сигналы

5.1. Индикаторы отображения состояний и ошибок

Светодиодные индикаторы

На рисунке ниже показаны светодиодные индикаторы (индикаторы состояний и ошибок) модуля AI 8xU/I HF.

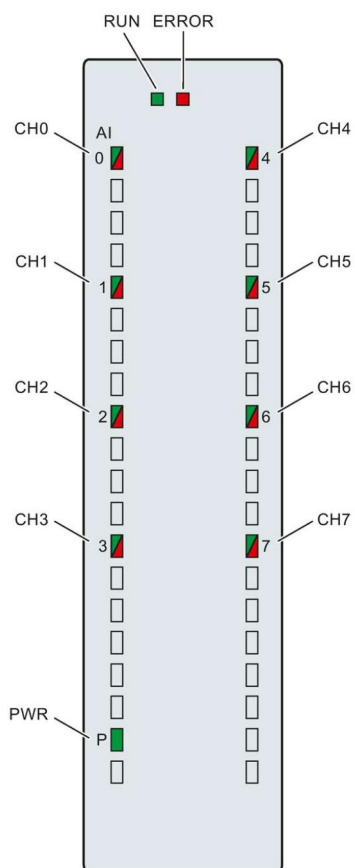












Рисунок 5-1 Светодиодные индикаторы модуля AI 8xU/I HF

Значения сигналов светодиодов индикации



Значение светодиодов индикации состояния и ошибок рассмотрено в следующей таблице. Меры, которые нужно предпринять для устранения причин, вызвавших диагностические прерывания, можно найти в разделе «Диагностические сообщения» (стр.33)

Таблица 5-1 Индикаторы отображения состояния и ошибок RUN и ERROR

Светодиод		Значение	Устранение неисправности
RUN	ERROR		
 Выкл.	 Выкл.	Отсутствует или слишком низкое напряжение на задней шине	<ul style="list-style-type: none"> Включите напряжение питания CPU и/или питание модулей Проверьте, вставлены ли U-образные коннекторы Проверьте, не превышен ли лимит количества установленных модулей
 Мигает	 Выкл.	Модуль находится в процессе загрузки. Мигание продолжается, пока не будут установлены корректные параметры	----
 Вкл.	 Выкл.	Модуль готов к работе	
 Вкл.	 Мигает	Индикация ошибок модуля (как минимум 1 ошибка в одном канале, например, обрыв провода)	Считайте данные диагностики и устраните ошибку (например, обрыв провода).
 Мигает	 Мигает	Аппаратная ошибка модуля	Замените модуль




Светодиод PWR

Таблица 5-2 Индикация светодиода PWR

Светодиод PWR	Значение	Устранение неисправности
 Выкл	Отсутствует напряжение L+ питания	Проверить напряжение питания
 Вкл	Напряжение питания L+ в норме.	---

Светодиод CHx

Таблица 5-3 Индикатор состояния CHx

Светодиод CHx	Значение	Устранение неисправности
 Выкл.	Канал выключен	-----
 Вкл.	Канал в рабочем состоянии	-----
 Вкл.	Канал находится в процессе конфигурирования (присутствует ошибка в канале). Диагностическое сообщение: например, обрыв провода	Проверьте правильность подключения. Отключить диагностику

5.2. Прерывания

Модуль ввода аналоговых сигналов AI 8xU BA поддерживает описанные в данном разделе диагностические и аппаратные прерывания. Подробную информацию о причине аппаратного прерывания можно получить из специального блока информации, который передается по инструкции «RALARM» (считать дополнительную информацию о прерывании); эта инструкция описана в интерактивной справке программы STEP 7.

Диагностические прерывания

Модуль вырабатывает диагностическое прерывание в случае наступления следующих событий:

- Отсутствует напряжение питания
- Обрыв провода
- Переполнение
- Незаполнение
- Ошибка параметризации

Аппаратные прерывания

Модуль вырабатывает аппаратное прерывание в случае наступления следующих событий:

- Выход за нижний предел 1
- Выход за нижний предел 2
- Выход за верхний предел 1
- Выход за верхний предел 2

Подробную информацию по кодам ошибок можно найти в описании организационного блока инструкции «RALRM» (считать дополнительную информацию о прерывании) для аппаратных прерываний и в интерактивной справке программы STEP 7.

В начале этого организационного блока указывается канал модуля, вызвавший прерывание. На следующем рисунке представлено назначение битов двойного слова 8, которое хранится в области локальных данных.



Рисунок 5- 2 Заголовок организационного блока.

Реакция модуля в случае одновременного достижения пределов 1 и 2

Если значения выходят одновременно за нижний и за верхний предел, модуль всегда вырабатывает аппаратное прерывание по событию выхода за верхний предел 1. Сконфигурированное значение для верхнего предела 2 становится недействительным. После обработки аппаратного прерывания по выходу за верхний предел 1, модуль вырабатывает аппаратное прерывание по выходу за верхний предел 2.

Точно также модуль обрабатывает аппаратное прерывание по одновременному выходу за нижние пределы 1 и 2 – сначала вырабатывается аппаратное прерывание по выходу за нижний предел 1, а после его обработки вырабатывается аппаратное прерывание по выходу за нижний предел 2.

Структура идентификатора пользовательской структуры (USI)

Таблица 5-4 Структура USI = W#16#0001

Имя блока данных	Содержание	Комментарий	Длина в байтах
USI (User Structure Identifier, Идентификатор пользовательской структуры)	W#16#0001	Дополнительные данные аварийных сигналов процесса периферийного модуля	2
Канал, вызвавший аппаратное прерывание			
Канал	с В#16#00 по В#16#n	Количество каналов, на которых произошло событие, вызвавшее аппаратное прерывание (n=число каналов модуля - 1)	1
Событие, вызвавшее аппаратное прерывание			
Событие	В#16#03	Выход за нижний предел 1	1
	В#16#04	Выход за нижний предел 2	
	В#16#05	Выход за верхний предел 1	
	В#16#06	Выход за верхний предел 2	

5.3. Диагностические сигналы

Диагностические предупреждения вырабатываются в случае нештатных ситуаций, которые сопровождаются также мерцанием светодиода ERROR. Содержимое диагностического предупреждения можно получить, считав его из буфера диагностики процессора. После этого код ошибки можно проанализировать в программе пользователя.

Если модуль работает в составе системы ET 200MP по интерфейсу PROFIBUS DP, диагностические данные можно получить с помощью инструкции RDREC или RD_REC в записях данных 0 и 1. Структура этих записей описана в документе «Руководство по интерфейсу модулю IM 155-5 DP ST (6ES7155-5BA00-0AB0)», который можно загрузить из Интернета.

Таблица 5-5 Диагностические предупреждения, их значения и методы устранения неисправностей.

Диагностические сообщения	Код ошибки	Значение	Метод устранения
Обрыв провода	6н	Высокое сопротивление цепи исполнительного механизма	Использовать другой тип датчика или другой провод, например, провод с большим сечением.
		Обрыв провода между модулем и исполнительным механизмом	Проверьте правильность подключений
		Канал не подключен (обрыв цепи)	<ul style="list-style-type: none"> • Выключите диагностику • подключите к контактам датчика резистор
Выход за верхний предел	7н	Значение выходит за верхнюю границу допустимого диапазона.	Проверьте диапазон измерений
Выход за нижний предел	8н	Значение выходит за нижнюю границу допустимого диапазона.	Проверьте диапазон измерений
Ошибка параметризации	10н	<ul style="list-style-type: none"> • Модуль не может распознать параметры, заданные для канала • Неправильное назначение параметров 	Задайте корректные параметры
Отсутствует напряжение питания	11н	Отсутствует напряжение питания L+	Подключите питание L+ к модулю/каналу

Диагностические сообщения и значение оценки состояния (QI)

Если модуль настроен на работу в конфигурации с оценкой состояния (QI), он всегда проверяет данные на наличие ошибок (даже если вы не включили соответствующую диагностику). Однако модуль прекращает эту проверку после обнаружения первой ошибки, независимо от того, была ли включена соответствующая диагностика, или нет. Вследствие этого могут не отображаться сообщения о событиях, диагностика которых включена.

Пример: вы включили диагностику «выход за верхний предел», но сначала сработала диагностика «обрыв провода» и диагностическое сообщение «выход за верхний предел» не отобразилось. Таким образом событие «выход за верхний предел» не было обнаружено.

Рекомендации: Чтобы быть уверенным, что все диагностические сообщения об ошибках были считаны, включите все виды диагностики (отметьте соответствующие флажки в настройках диагностики).

6. Технические характеристики

6.1. Технические характеристики модуля AI 8xU/I HF

	6ES7531-7NF00-0AB0
Основная информация	
Обозначение типа продукта Функциональный стандарт HW	AI 8xU/I HF FS01
Версия программного обеспечения <ul style="list-style-type: none"> Обновление ПО Функции изделия Данные для идентификации и обслуживания I&M Масштабируемый диапазон измерений Параметрирование: Интегрирован / проектируется в среде STEP 7 TIA Portal, версия не ниже Интегрирован / проектируется в пакете STEP 7, версия не ниже PROFIBUS, версия не ниже GDS/GDS-Revision PROFINET, версия не ниже GDS/GDS-Revision	V1.0.0 Да Да; от I&M0 до I&M3 Нет V14 / V13 SP1 V5.5 SP4 / V5.5 SP3 V1.0 / V5.1 V2.3 / -
Режимы работы <ul style="list-style-type: none"> Сверхдискретизация MSI Конфигурирование в RUN (CiR) Возможно изменение параметров в RUN Возможна калибровка в RUN	Нет Да Да Нет
Напряжение питания	
Тип напряжения питания Номинальное значение (пост. ток) Допустимый диапазон, нижний предел (пост. ток) Допустимый диапазон, верхний предел (пост. ток) Защита от обратной полярности	Пост. ток 24 В 20,4 В 28,8 В Да
Входной ток Макс. Потребление тока Мощность Потребляемая мощность из задней шины	50 мА; напряжение питания 24 В пост.тока 0,85 Вт
Рассеиваемая мощность	
Номинальная рассеиваемая мощность	1,9 Вт

	6ES7531-7NF00-0AB0
Аналоговые входы	
Число аналоговых входов	8
<ul style="list-style-type: none"> • Для измерения тока • Для измерения напряжения 	8 8
Макс. допустимое входное напряжение для входа напряжения (предел разрушения)	28,8 В
Макс. допустимый входной ток для токового входа (предел разрушения)	40 мА
Диапазоны входных параметров (номинальные значения), напряжение	
<ul style="list-style-type: none"> • от 1 до 5 В 	Да;
Сопrotивление на входе (от 1 до 5 В)	100 кОм
<ul style="list-style-type: none"> • от -10 В до +10 В 	Да;
Сопrotивление на входе (от -10 В до +10 В)	100 кОм
<ul style="list-style-type: none"> • от -2,5 В до +2,5 В 	Да;
Сопrotивление на входе (от -2,5 В до +2,5 В)	100 кОм
<ul style="list-style-type: none"> • от -5 В до +5 В 	Да;
Сопrotивление на входе (от -5 В до +5 В)	100 кОм
Диапазоны входных параметров (номинальные значения), ток	
от 0 мА до 20 мА	Да
Сопrotивление на входе (от 0 мА до 20 мА)	25 Ω; не включая ок. 42 Ом на защиту от перенапряжения посредством позистора
от -20 мА до +20 мА	Да
Сопrotивление на входе (от -20 мА до +20 мА)	25 Ω; не включая ок. 42 Ом на защиту от перенапряжения посредством позистора
от 4 мА до +20 мА	Да
Сопrotивление на входе (от 4 мА до +20 мА)	25 Ω; не включая ок. 42 Ом на защиту от перенапряжения посредством позистора
Длина провода	
экранированные, макс.	800 м
Формирование аналоговой величины для входов	
Время интегрирования и преобразования/разрешение на канал:	
<ul style="list-style-type: none"> • Макс. разрешение с диапазоном перегрузки (бит со знаком) 	16 бит
<ul style="list-style-type: none"> • Настраиваемое время интегрирования 	Да
<ul style="list-style-type: none"> • Время интегрирования (мс) 	Fast mode 2,5 / 16,67 / 20 / 100 мс; Standard Mode: 7,5 / 50 / 60 / 300 мс
<ul style="list-style-type: none"> • Основное время преобразования, включая время интегрирования (мс) 	Fast Mode: 4 / 18 / 22 / 102 мс; Standard Mode: 9 / 52 / 62 / 302 мс
<ul style="list-style-type: none"> • Подавление напряжения помех для частоты помех f1 в Гц 	400 / 60 / 50 / 10 Гц
<ul style="list-style-type: none"> • Основное время выполнения для модуля (все каналы включены) 	соответствует каналу с самым большим базовым временем преобразования

	6ES7531-7NF00-0AB0
<p>Сглаживание результатов измерений</p> <ul style="list-style-type: none"> • Параметрируемое <p>Уровень: без сглаживания</p> <p>Уровень: Слабое</p> <p>Уровень: Среднее</p> <p>Уровень: Сильное</p>	<p>Да</p> <p>Да</p> <p>Да</p> <p>Да</p> <p>Да</p>
Датчики	
<p>Подключение сигнального датчика:</p> <ul style="list-style-type: none"> • для измерения напряжения • для измерения тока в качестве 2-проводного измерительного преобразователя • для измерения тока в качестве 4-проводного измерительного преобразователя 	<p>Да</p> <p>Да; с внешним питанием измерительного преобразователя</p> <p>Да</p>
Погрешности/точность	
<p>Погрешность линеаризации (относительно диапазона входных параметров) (+/-)</p> <p>Температурная погрешность (относительно диапазона входных параметров) (+/-)</p> <p>Перекрестные модуляции между входами, мин.</p> <p>Повторяемость в установившемся состоянии при 25 °C (относительно диапазона входных параметров), (+/-)</p>	<p>±0,02 %</p> <p>±0,005 %/K</p> <p>-80 дБ</p> <p>±0,02 %</p>
<p>Эксплуатационный предел погрешности во всем диапазоне температуры</p> <ul style="list-style-type: none"> • Напряжение относительно диапазона входных параметров, (+/-) • Ток относительно диапазона входных параметров, (+/-) <p>Основной предел погрешности (эксплуатационный предел погрешности при 25 °C)</p> <ul style="list-style-type: none"> • Напряжение относительно диапазона входных параметров, (+/-) • Ток относительно диапазона входных параметров, (+/-) <p>Подавление напряжения помех для $f = n \times (f_1 \pm 1 \%)$, $f_1 = \text{частота помех}$</p> <ul style="list-style-type: none"> • Мин. помехи нормального вида (пиковое значение помех < номинального значения диапазона входных значений) • Макс. синфазное напряжение • Мин. синфазные помехи 	<p>±0,1 %</p> <p>±0,1 %</p> <p>±0,05 %</p> <p>±0,05 %</p> <p>80 дБ(в Standart mode); 40 дБ (Fast mode)</p> <p>60 В пост. тока/30 В перем. Тока</p> <p>80 дБ</p>
<p>Тактовая синхронизация</p> <p>Режим тактовой синхронизации (синхронизация до клеммы)</p>	<p>Нет</p>
Аварийные сигналы/диагностика /информация о состоянии	
<p>Диагностика</p> <p>Прерывания</p> <ul style="list-style-type: none"> • Диагностическое прерывание • Прерывание по достижению предельного значения 	<p>Да</p> <p>Да</p> <p>Да; по два значения верхнего и нижнего пределов</p>
<p>Диагностические сообщения:</p> <ul style="list-style-type: none"> • Контроль напряжения питания • Обрыв провода • Переполнение/незаполнение 	<p>Да</p> <p>Да; только для 1 - 5 В и 4 - 20 мА</p> <p>Да</p>

	6ES7531-7NF00-0AB0
Диагностический светодиодный индикатор	
Светодиод RUN	Да; зеленый светодиод
Светодиод ERROR	Да; красный светодиод
Контроль напряжения питания(PWR-LED)	Да; зеленый светодиод
Индикатор состояния канала	Да; зеленые светодиоды
Для диагностики канала	Да; красный светодиод
Для диагностики модуля	Да; красный светодиод
Гальваническая развязка	
<ul style="list-style-type: none"> • между каналами • между каналами в блоках из • между каналами и задней шиной • между каналами и напряжением питания блока 	<p>Да</p> <p>1</p> <p>Да</p> <p>Да</p>
Допустимая разность потенциалов	
между различными цепями	60 В пост. тока/30 В перем. тока; изоляция рассчитана для 120 В перем. тока базовая изоляция: между каналами и напряжением питания L+, между каналами и задней шиной, между каналами
Изоляция	
Изоляция, испытанная посредством	пост. ток 2 000 В между каналами и напряжением питания L+; пост. ток 2 000 V между каналами и задней шиной; пост. ток 2 000 В между каналами; пост. ток 707 В (Type Test) между напряжением питания L+ и задней шиной
Температура окружающей среды при эксплуатации:	
<ul style="list-style-type: none"> • Горизонтальное монтажное положение, мин. • Горизонтальное монтажное положение, макс. • Вертикальное монтажное положение, мин. • Вертикальное монтажное положение, макс. 	<p>0 °C</p> <p>60 °C</p> <p>0 °C</p> <p>40 °C</p>
Децентрализованный режим работы	
Приоритетный запуск	Да
Размеры	
Ширина	35 мм
Высота	147 мм
Глубина	129 мм
Масса	
Масса, прибл.	280 г

А Габаритный чертеж

В этом приложении приведено размерное изображение модуля, установленного на профильной шине, а также размерное изображение с открытой фронтальной панелью. Размеры необходимо учитывать при установке в шкафах, коммутационных зонах и т.д.

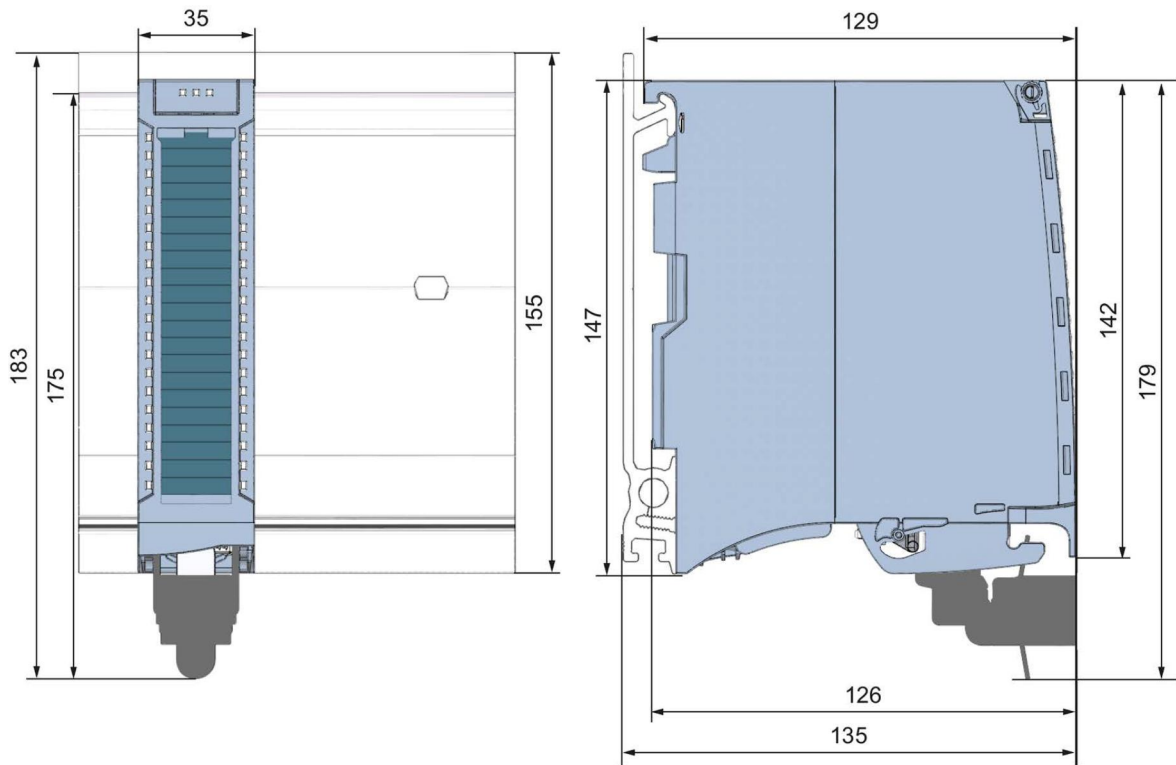


Рисунок А-1 Габаритный чертеж модуля AI 8xU/I HF



Рисунок А-2 Габаритный чертеж модуля AI 8xU/I HF (вид сбоку, открытой передней крышкой)

В Запись данных параметра

В.1 Назначение параметров и структура записей данных параметра

Записи данных модуля имеют идентичную структуру – независимо от того, с помощью PROFIBUS DP или PROFINET IO конфигурируется модуль.

Зависимость между параметрами при назначении параметров в файле GDS

При конфигурировании модуля при помощи файла GSD помните, что некоторые параметры зависят друг от друга. После передачи в модуль параметры проверяются модулем только на достоверность.

В таблице ниже перечислены свойства модуля, зависящие друг от друга.

Таблица В-1 Взаимозависимые параметры при конфигурировании с помощью файла GDS

Параметры устройства (файл GDS)	Зависимые параметры
Предел по току при диагностике обрыва провода	Только для измерения тока в диапазоне измерений от 4 до 20 мА
Обрыв провода	Только для измерения сопротивления в диапазоне измерений 1В до 5В и тока в диапазоне измерений от 4 мА до 20 мА
Аппаратное прерывание по достижению предельного значения	Только если включены аппаратные прерывания

Назначение параметров в программе пользователя

Значения параметров можно безопасно изменять в режиме RUN. Например, входная задержка на выбранных каналах может быть изменена в режиме RUN и это изменение не окажет воздействия на работу других каналов.

Изменение параметров в RUN

Параметры могут передаваться в модуль командой «WRREC» через записи данных от 0 до 7. При этом настроенные с помощью STEP 7 параметры в CPU не изменяются, то есть после перезапуска продолжают действовать изначально заданные с помощью STEP 7 наборы параметров.

После передачи в модуль параметры проверяются модулем только на достоверность.

Выходной параметр STATUS

Если в процессе передачи параметров с помощью инструкции «WRREC» возникают ошибки, набор параметров отвергается и используется предыдущий набор параметров. Тем не менее, код соответствующей ошибки записывается в выходной параметр STATUS.

Описание инструкции «WRREC» и коды ошибок можно найти в интерактивной справке по программе STEP 7.

Эксплуатация модуля сразу после интерфейсного модуля PROFIBUS DP

Если модуль эксплуатируется сразу после интерфейсного модуля PROFIBUS DP, параметры записи данных 0 и 1 не могут быть считаны. Вы можете получить данные диагностики записей данных 0 и 1, чтобы прочитать параметры этих записей данных. Более подробную информацию вы можете получить из руководства к интерфейсному модулю PROFIBUS DP (раздел «Прерывания») в сети Интернет по адресу (<http://support.automation.siemens.com/WW/view/en/78324181>).

Сопоставление записей данных и каналов:

Для конфигурации модуля «1x8 канальный модуль» параметры находятся в записях данных с 0 по 7 и назначаются следующим образом:

- Запись данных 0 для канала 0
- Запись данных 1 для канала 1
- ...
- Запись данных 6 для канала 6
- Запись данных 7 для канала 7

Для конфигурации модуля «8x1 канальный модуль», модуль имеет 8 субмодуля по 1 каналу в каждом. Параметры для канала находятся в записи данных 0 и назначаются следующим образом:

- Запись данных 0 для канала 0 (субмодуль 1)
- Запись данных 0 для канала 1 (субмодуль 2)
- ...
- Запись данных 0 для канала 6 (субмодуль 7)
- Запись данных 0 для канала 7 (субмодуль 8)

Для передачи записи данных выбирается адрес соответствующего подмодуля.

Структура записи данных

На рисунке ниже показан пример структуры записи данных 0 для канала с номером 0. Структура записи данных каналов с 1 по 7 идентична. Значения в байтах 0 и 1 фиксированы и не могут быть изменены.

Активация параметра происходит путем установки значения «1» в соответствующем бите.

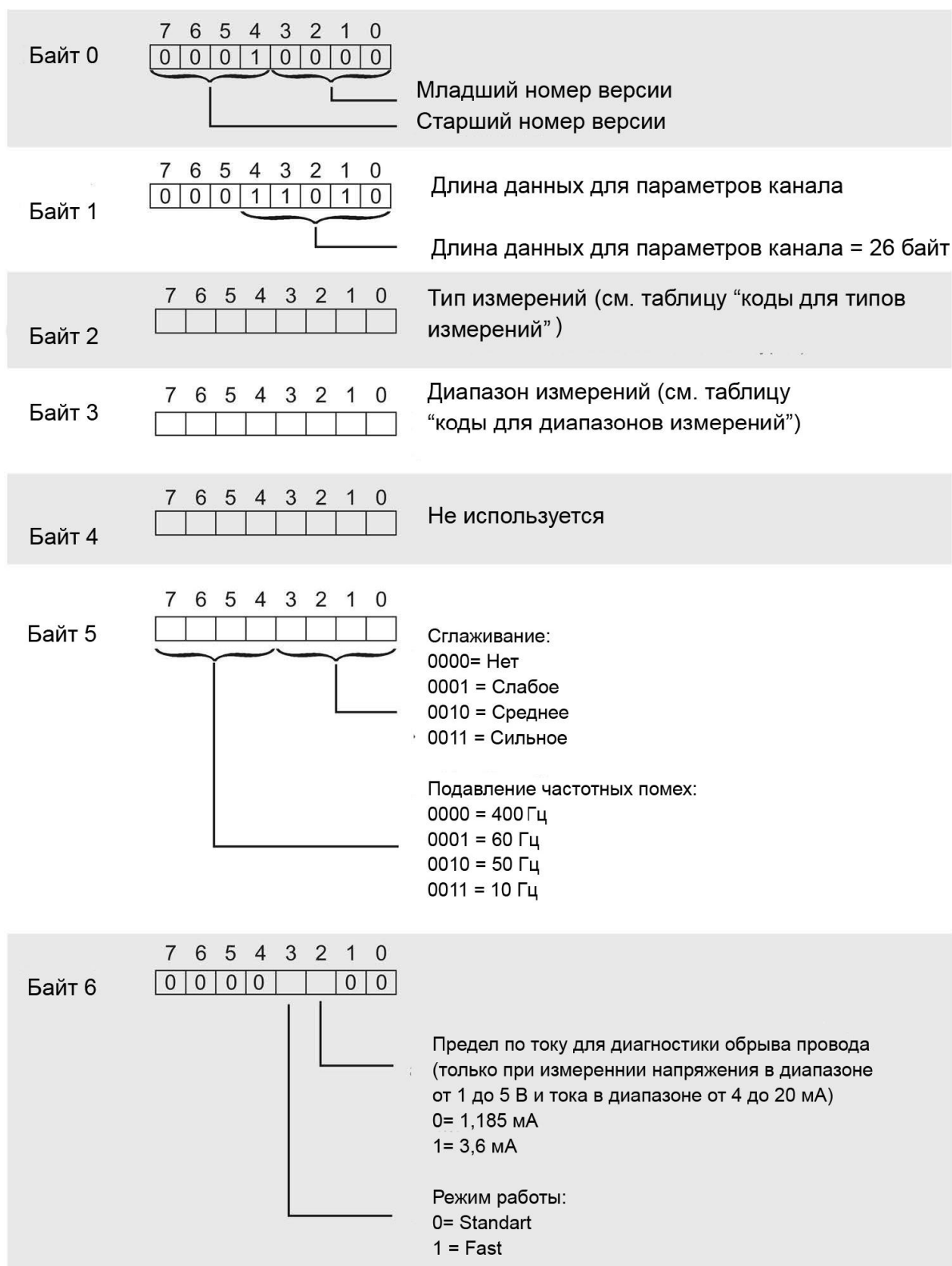
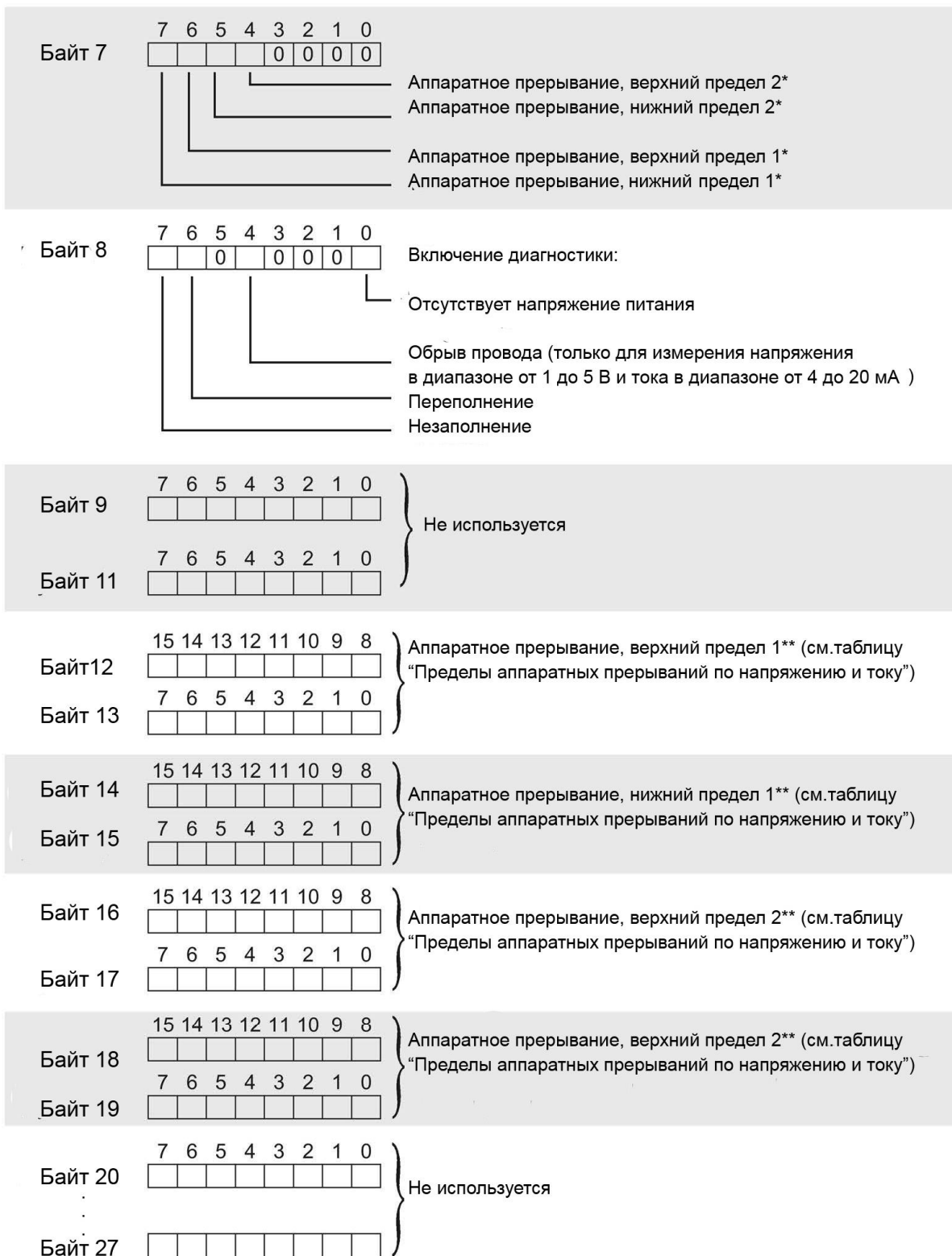


Рисунок В-1 Структура записи данных 0: байты с 0 по 6



Для активации аппаратных прерываний необходимо, чтобы аппаратные прерывания

* для соответствующего канала были разрешены в организационном блоке ОВ программы STEP 7

** Значение верхней границы должно быть больше, чем значение нижней границы.

Рисунок В-2 Структура записи данных 0: байты с 7 по 27

Коды типов измерений

Таблица ниже содержит коды типов измерений аналоговой величины на входе модуля. Вы должны установить эти коды в байте 2 соответствующей записи данных (см. предыдущий рисунок).

Таблица В-2 Коды для типов измерений

Тип измерений	Код
Отключено	0000 0000
Напряжение	0000 0001
Измерение тока 4х-проводным датчиком	0000 0010
Измерение тока 2х-проводным датчиком	0000 0011

Коды диапазонов измерений

Таблица ниже содержит коды диапазонов измерений аналоговой величины на входе модуля. Вы должны установить эти коды в байте 3 соответствующей записи данных (см. предыдущий рисунок).

Таблица В-3 Коды для диапазонов измерений

Диапазон измерений	Код
Напряжение	0000 0111
+/- 2,5 В	0000 1000
+/-5 В	0000 1001
+/- 10 В	0000 1010
От 1 В до 5 В	
Измерение тока 4х-проводным датчиком	
От 0 мА до 20 мА	0000 0010
От 4 мА до 20 мА	0000 0011
+/- 20 мА	0000 0100
Измерение тока 2х-проводным датчиком	
От 4 мА до 20 мА	0000 0011

Пределы для аппаратных прерываний

Пределы для аппаратных прерываний (верхний/нижний предел) не должны выходить за границы номинальных диапазонов измерений.

В следующей таблице приведены допустимые пределы для аппаратных прерываний. Значение предела зависит от типа и диапазона измерений.

Таблица В-4 Пределы аппаратных прерываний по напряжению и току

Напряжение		Ток		
±2.5 В, ±5 В, ±10 В	От 1 до 5 В	± 20 мА	От 4 до 20 мА, от 0 до 20 мА	
32510	32510	32510	32510	Верхний предел
-32511	-4863	-4863	-4836	Нижний предел

С Представление аналоговых величин

Введение

В этом разделе описано представление аналоговых значений для всех диапазонов измерений, реализованных в аналоговом модуле AI 8xU/I HF

Разрешение измеряемого значения

При записи числовые значения выравниваются влево. Битам, помеченным символом «х», присваивается нулевое значение.

Таблица С-1 Разрешение представления аналоговых величин

Разрешение в битах, включая знак	Величины		Аналоговые величины	
	Десятичные	Шестнадцатеричные	Старший байт	Младший байт
16	1	1н	Знак 0 0 0 0 0 0 0	0 0 0 0 0 0 1

С.1 Представление входных диапазонов

В следующей таблице приведены числовые представления для случаев биполярных и униполярных величин. Разрешение составляет 16 бит.

Таблица С-2 Выходные диапазоны для биполярных величин

Десят. значение	Входное значение в %	Слово данных																Диапазон
		2^{15}	2^{14}	2^{13}	2^{12}	2^{11}	2^{10}	2^9	2^8	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	
32767	> 117,589	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Переполнение
32511	117,589	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	Выход за верхнюю границу
27649	100,004	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	
27648	100,000	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	Номинальный диапазон
1	0,003617	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0	0,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-1	-0,003617	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-27648	-100,000	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	Выход за нижнюю границу
-27649	-100,004	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	
-32512	-117,593	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
-32768	< -117,593	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Незаполнение

Таблица С-3 Входные диапазоны для униполярных величин

Десят. значение	Входное значение в %	Слово данных																Диапазон
		2^{15}	2^{14}	2^{13}	2^{12}	2^{11}	2^{10}	2^9	2^8	2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	
32767	> 117,589	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Переполнение
32511	117,589	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	Выход за верхнюю границу
27649	100,004	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	
27648	100,000	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	Номинальный диапазон
1	0,003617	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
0	0,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-1	-0,003617	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4864	-17,593	1	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	Выход за нижнюю границу
-32768	< -17,593	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

С.2 Представление аналоговых величин для диапазонов измеряемого напряжения

В следующей таблице приведены десятичные и шестнадцатеричные значения (коды) для допустимых диапазонов измеряемого напряжения

Таблица С- 4 Диапазон измерения напряжения ± 10 В, ± 5 В и $\pm 2,5$ В

Величины		Диапазон измеряемого напряжения			Диапазон
Десят.	Шестнад.	± 10 В	± 5 В	$\pm 2,5$ В	
32767	7FFF	>11.759 В	>5,879 В	>2.939 В	Переполнение
32511	7EFF	11.759 В	5,879 В	2.939 В	Выход за верхнюю границу
27649	6C01				
27648	6C00	10 В	5 В	2,5 В	Номинальный диапазон
20736	5100	7,5 В	3,75 В	1,875 В	
1	1	361,7 мкВ	180,8 мкВ	90,4 мкВ	
0	0	0 В	0 В	0 В	
-1	FFFF				
-20736	AF00	-7,5 В	-3,75 В	-1,875 В	
-27648	9400	-10 В	-5 В	-2,5 В	
-27649	93FF				
-32512	8100	-11,759 В	- 5,879 В	-2,939 В	Выход за нижнюю границу
-32768	8000	< -11,759 В	< - 5,879 В	< -2,939 В	Незаполнение

Таблица С-5 Диапазон измерения напряжения от 1 В до 5 В

Величины		Диапазон измерения напряжения	Диапазон
Десят.	Шестнад.	от 1 до 5 В	
32767	7FFF	>5.704 В	Переполнение
32511	7EFF	5.704 В	Выход за верхнюю границу
27649	6C01		
27648	6C00	5 В	Номинальный диапазон
20736	5100	4 В	
1	1	1 В+144,7 мкВ	
0	0	1 В	
-1	FFFF		
-4864	ED00	0,296 В	Выход за нижнюю границу
-32768	8000	< 0,296 В	Незаполнение

С.3 Представление аналоговых величин для диапазонов измеряемых токов

В следующей таблице приведены десятичные и шестнадцатеричные значения (коды) для допустимых диапазонов измеряемых токов

Таблица С-6 Диапазон измерения токов ± 20 мА

Величины		Диапазон измерения токов	
Десят.	Шестнад.	± 20 мА	
32767	7FFF	>23,52 мА	Переполнение
32511	7EFF	23,52 мА	Выход за верхнюю границу
27649	6C01		
27648	6C00	20 мА	Номинальный диапазон
20736	5100	15 мА	
1	1	723,4 нА	
0	0	0 мА	
-1	FFFF		
-20736	AF00	-15 мА	Выход за нижнюю границу
-27648	9400	-20 мА	
-27649	93FF		
-32512	8100	-23,52 мА	
-32768	8000	<-23,52 мА	

Таблица С-7 Диапазоны измерения токов от 0 до 20 мА и от 4 до 20 мА

Величины		Диапазон измерения токов		
Десят.	Шестнад.	От 0 до 20 мА	От 4 до 20 мА	
32767	7FFF	>23,52 мА	>22,81 мА	Переполнение
32511	7EFF	23,52 мА	22,81 мА	Выход за верхнюю границу
27649	6C01			
27648	6C00	20 мА	20 мА	Номинальный диапазон
20736	5100	15 мА	16 мА	
1	1	723,4 нА	4 мА+578,7 нА	
0	0	0 мА	4 мА	
-1	FFFF			
-4864	ED00	-3,52 мА	1,185 мА	Выход за нижнюю границу
-32768	8000	<-23,52 мА	< 1,185 мА	

С.4 Измеряемые значения, используемые для диагностики обрыва провода

Значения, используемые для диагностики события «обрыв провода», зависят от того, какие параметры диагностики активны.

При правильной конфигурации событие ошибки записывается в соответствующую диагностическую ячейку и запускает диагностическое прерывание.

Таблица С-8 Измеряемые величины, используемые для диагностики обрыва провода

Формат	Назначение параметра	Измеряемые значения		Пояснения
S7	<ul style="list-style-type: none"> Диагностика «Обрыв провода» включена Диагностика «Переполнение/незаполнение» включена или отключена (событие «Обрыв провода» имеет более высокий приоритет, чем событие «Переполнение/незаполнение») 	32767	7FFF _H	Диагностическое предупреждение «Обрыв провода» или «Разомкнутая цепь»
	<ul style="list-style-type: none"> Диагностика «Обрыв провода» отключена Диагностика «Переполнение/незаполнение» включена 	-32767	8000 _H	<ul style="list-style-type: none"> Измеряемое значение после выхода за нижний предел Диагностическое предупреждение «Выход за нижнюю границу»
	<ul style="list-style-type: none"> Диагностика «Обрыв провода» отключена Диагностика «Переполнение/незаполнение» включена 	-32767	8000 _H	Измеряемое значение после выхода за нижний предел

D Программное обеспечение с открытым исходным кодом

Указание дистрибьютору: приведенные здесь указания и лицензионные условия должны быть сообщены покупателю, чтобы избежать нарушения лицензии дистрибьютором и покупателем.

Лицензионные условия и исключение ответственности за открытое программное обеспечение и другое лицензионное ПО

В справочнике «Цифровые модули, аналоговые модули, технологические модули, коммуникационные модули и модули электропитания SIMATIC S7-1500, ET 200MP», Copyright Siemens AG, 2013–2014 (далее называемом «продукт») используется нижеперечисленное открытое программное обеспечение в неизменной или измененной нами форме, а также другое нижеперечисленное лицензионное ПО.

Ответственность за открытое ПО

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a „work that uses the Library“. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a „work that uses the Library“ with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a „work that uses the Library“. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a „work that uses the Library“ uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- b) Accompany the object code with a copy of the GNU GPL and this license document.

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Modified for incorporation into newlib by Joel Sherrill (joel@OARcorp.com), On-Line Applications Research, 1995.

Did the following:

- + merged in DEFS.h
- + removed error check since it prevented using this setjmp to „context switch“
- + added the support for the „user label“ and „register“ prefix

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