



DCF77 Decoder

The example contains a library with a function block that decodes a DCF77 time signal.

Product description

The library contains a function block decoding a DCF77 time signal and releasing the transmitted date and time as a DATE_AND_TIME value.

An example project shows the usage of the library with the control *CODESYS Control for Raspberry Pi SL*.

More information

Library DCF77_Decoder

The DCF77_DECODER function block checks whether the transmitted time signal is inverted and then waits for a mark signaling the beginning of a new time signal. The DCF77 time signal consists of 59 bits. Since one bit is transmitted per second the function block outputs the first DATE_AND_TIME value after two minutes at the longest. The DATE_AND_TIME value is updated every minute.

Example DCF77_Decoder_Example

The example project shows the usage of the library with the runtime system *CODESYS Control for Raspberry Pi SL* and a DCF receiver. The output of the DCF receiver is connected with a GPIO input of the Raspberry Pi.

General information

Manufacturer:

3S-Smart Software Solutions GmbH
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 87439 Kempten
 Germany

Support:

<https://support.codesys.com>

Item:

DCF77 Decoder

Item number:

000063

Sales:

CODESYS Store

<https://store.codesys.com>

Included in delivery:

Package with library and example project

System requirements and restrictions

Programming System	CODESYS Development System Version 3.5.6.30 or higher
Runtime System	CODESYS Control Version 3.5.6.0 or higher
Supported Platforms/ Devices	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	-
Restrictions	-
Licensing	-
Required Accessories	DCF77 Receiver, CODESYS Control for Raspberry Pi SL (for the example project)

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.