

Datasheet MySQL Library SL



This Library allows you to connect your CODESYS v3.5 application to a MySQL-Server database to read and write data from it.

Without purchasing a license (just download) the MySQL Library SL runs for 30 minutes without functional limitations and disconnects automatically (demo).

Product Description

This Library allows your CODESYS v3.5 application, to connect with a MySQL-Server data-base. It gives you the opportunity to read and store process data to an external or internal MySQL database, without any 3rd party software or driver. Whether you want to store data for long-term logging, exchange data with 3rd party applications or collecting mass of machine data for your next IoT project, it's all possible with our MySQL-Library for CODESYS.

You will be able to connect to a MySQL-Server, which is directly running on the same system, as your PLC (local) or you can also connect to a remote hosted MySQL-Server, any-where in the world.

MySQL is a fast, easy-to-handle, and lightweight database system and compatible with most of the well-known operating systems.

Range of Functions

Supported MySQL-Commands

- INSERT
- SELECT
- UPDATE
- DELETE, ALTER, DROP, etc.

Runtime Properties

Database entries can be executed by hand or with a trigger. The runtime speed is depending on the MySQL-Server, connection speed, and runtime system. There are a lot of examples available, how you can use the library (see: MySQL_Lib_Manual).

Function Blocks

The Library comes with five function blocks:

- MySQL_Open
- MySQL_Exec
- MySQL_Query
- MySQL_Close

Functions

- MySQL_GetStringValue(returns the requested Value from the selected cell)

Product Options

MySQL Library simple visu example

Connection MySQL Library V1.0 for CODESYS V3.5

Connection (MySQL_Open and MySQL_Close)

IP Address/Host	<input type="text" value="128.1.67.8"/>
Port	<input type="text" value="3306"/>
Username	<input type="text" value="root"/>
Password	<input type="password" value=""/>
Database	<input type="text" value="testdb"/>

Current step:

Error:

Execute

Execute MySQL command (MySQL_Exec)

E[0]	<input type="text" value="INSERT INTO data (Column_1, Column_2, Column_3) VALUES (1,2,3)"/>
E[1]	<input type="text" value=""/>
E[2]	<input type="text" value=""/>
E[3]	<input type="text" value=""/>
E[4]	<input type="text" value=""/>

Current step:

Error:

Query

Execute MySQL Query command (MySQL_Query)

Q[0]	<input type="text" value="SELECT * FROM data"/>	rows	<input type="text" value="2"/>
Q[1]	<input type="text" value="WHERE Column_3 = 3"/>	columns	<input type="text" value="4"/>
Q[2]	<input type="text" value=""/>	Current step:	<input type="text" value="Successful executed - affected rows: 2"/>
Q[3]	<input type="text" value=""/>	Error:	<input type="text" value="0"/>
Q[4]	<input type="text" value=""/>		

Selected result

Get String from DataSet Result (MySQL_GetStringValue)

row	<input type="text" value="1"/>	Selected value from cell:	<input type="text" value="dt#2016-08-07-14:54:25"/>
column	<input type="text" value="1"/>		

General Information



Supplier Pfänder GmbH
Bachstr. 15
74585 Rot am See
Germany

Support support@pfaender.de

Product MySQL Library SL

Order Number 2112000006

Sales CODESYS Store
store.codesys.com

Scope of Delivery

- MySQL Library
- Example project with CFC and ST (+ Visu)
- Detailed documentation and quick start guide

System Requirements and Restrictions

Programming System	CODESYS Development System V3.5.9.0
Target System	CODESYS Control V3.5.9.0
Supported Platforms / Devices	Tested devices: CODESYS Control Win V3, Raspberry Pi, Beagle Bone Black, WAGO PFC 200 Notice: 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	MySQL-database
Restrictions	
Licensing	License activation optional on CODESYS Runtime Key or CODESYS Softcontainer.