

Data Sheet 5.64-1/1

# Application Programming Interface for HiRES, Type HiRES API

## Description

Sometimes a special application used by the customer required an adapted measurement procedure, or the HiRES measuring system shall be included into an automated test or manufacturing process, where interaction with other user software is necessary, or further steps in a process depend on measurement results, for example when devices shall be adjusted or calibrated automatically.

For such purposes the HiRES API provides a comprehensive application programming interface for embedding the HiRES measuring system in customer systems. The following functions are made available to the user:

- Hardware control, e.g. switching on and off channels, retrieving battery status, setting of filters, etc.
- Control of measurement, e.g. setting triggers, measurement ranges, pre and post trigger times and sampling rates for each channel, etc.
- Memory management, recording memory assignment for each channel

The HiRES API is provided as a dynamic link library (.dll) with interface documentation.

The following functions need to be part of the user or third party software that uses the HiRES API:

- All evaluation functions
- Functions for data storage, display, export and protocol generation

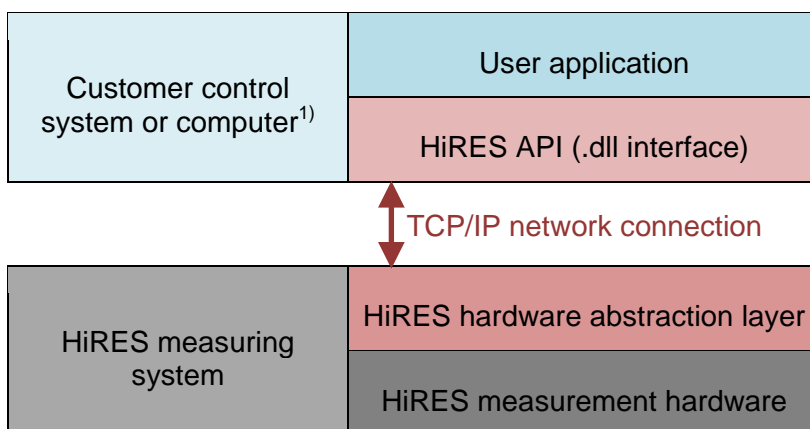


Figure 1: Principle of HiRES API and interaction with user software

<sup>1)</sup> It is also possible to use the built-in computer of the HiRES measuring system