

# Quick Guide Hydrocal-Service-Tool

## General

Hydrocal-Service-Tool (HCalServTool.exe) is a utility software for the dissolved gas-in-oil analyzer and transformer monitoring system Hydrocal 100x.

### It can be used:

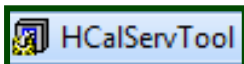
- to update the firmware and parameterization of a Hydrocal 100x device
- to read out the service data, i.e. the configuration, parameterization and diagnostics data from a Hydrocal 100x device
- **Advice in case of trouble: first, perform a read out of service data, then reboot or update the unit!**

### Following hard- and software requirements must be met:

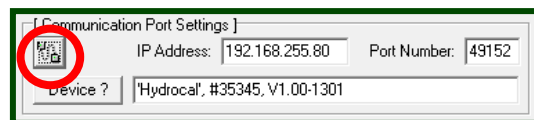
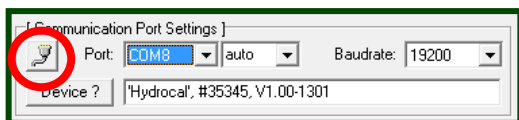
- a personal computer running one of the Microsoft® Windows operation system like Windows 98SE, Windows 2000, XP, Vista or Windows 7
- an internal RS232 communication port or USB-to-RS232/RS485 adapter
- Remark: a virtual COM port via a modem connection cannot be used!
- Optional: an Ethernet interface

## First steps

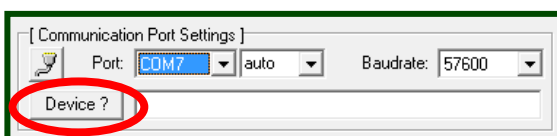
- Unpack the Hydrocal-Service-Tool zip-file to a directory of your choice
- Connect Hydrocal 100x via serial cable (COMx) or Ethernet to your computer
- Start HCalServTool.exe:



- Activate COM Ports or Ethernet by clicking the button in the upper left corner of the “Communication Port Settings” frame:



- Select COMx Port and Baudrate or enter IP Address and Port Number
- Press Device? button and wait until the device data are displayed:

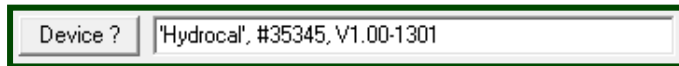


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## Device detection

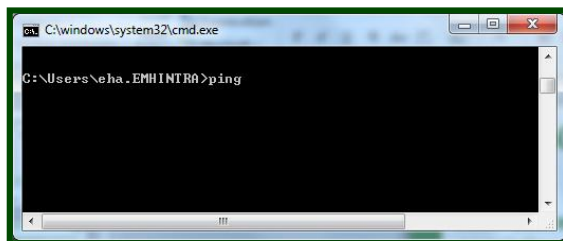
After successful detection, text field is filled with the device information consisting of:

- Device Name: 'Hydrocal'
- Serial Number: #99999
- Firmware Version: V1.00-B0000

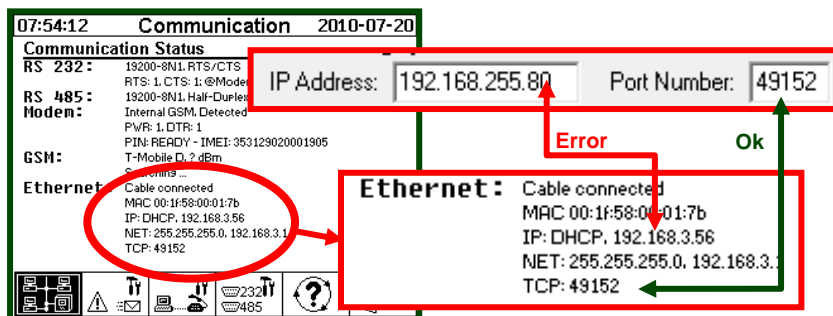


### If device cannot be detected:

- make sure that the settings for Port and Baudrate are correct and retry
- For Ethernet verify the IP Address
- try to PING the device

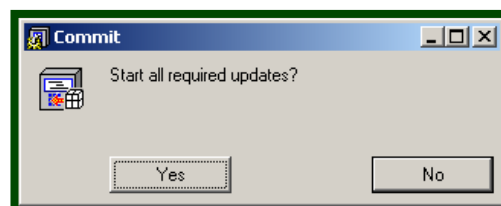


- check TCP Port:



## Automatic Update

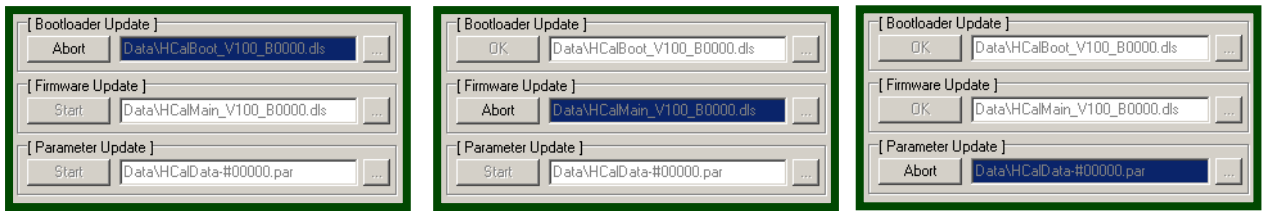
- Along with the device detection there is also a check for required firmware updates. The Automatic Update dialog appears, asking whether all required updates should be downloaded to the device:



**Commit with Yes**

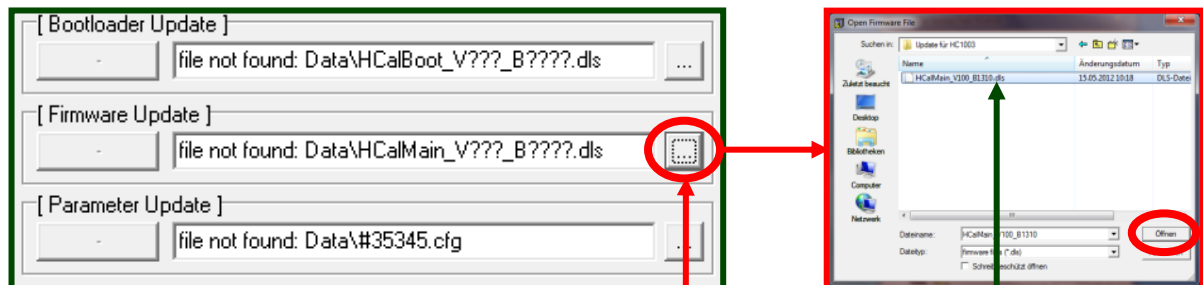
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- In automatic update mode, the updates will be downloaded from top to bottom (boot loader, firmware and parameter) as required:

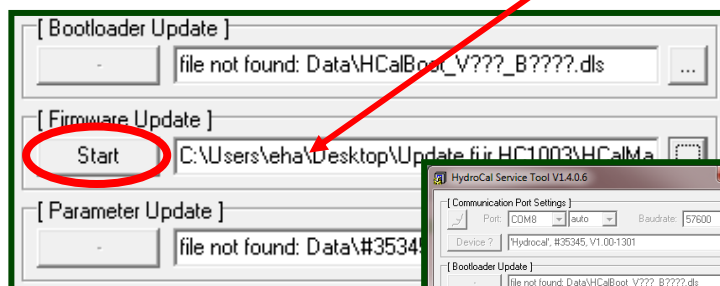


- Device performs a reboot after update

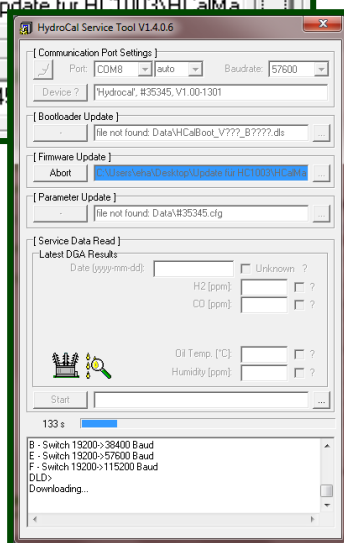
## Manual Firmware Update (same operation for Bootloader and Parameter Updates)



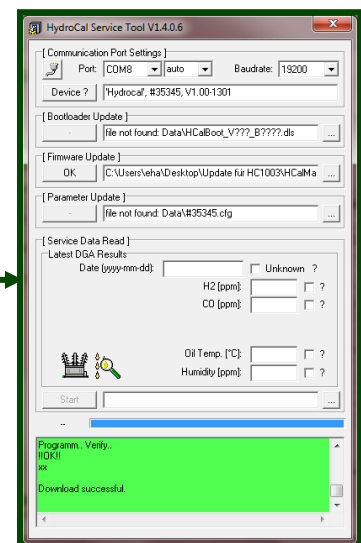
Search for firmware file



Press Start button



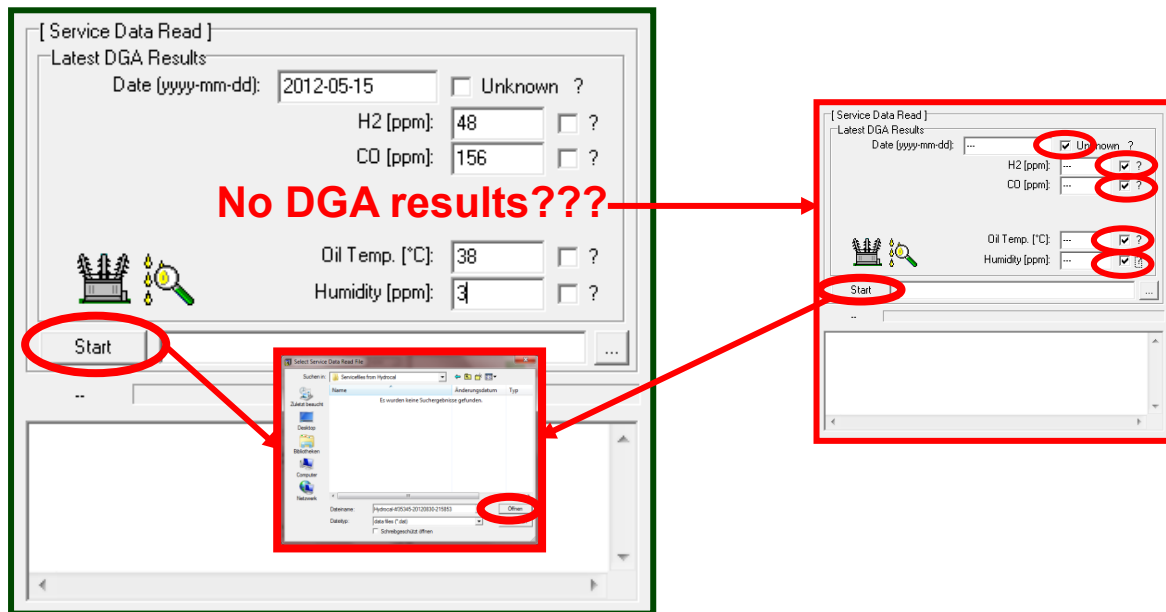
Transfer...



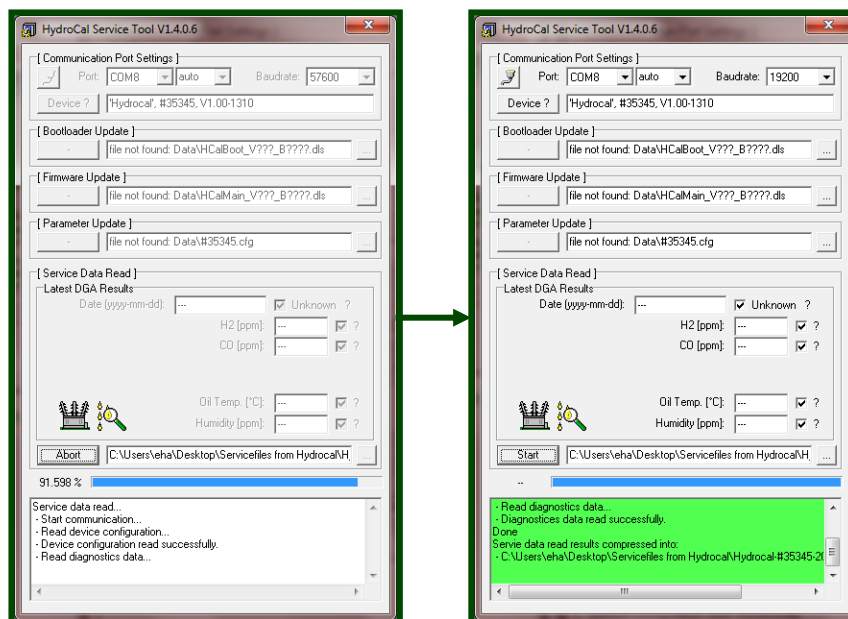
Download successful

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## Read out of Service Data



Enter DGA results and press Start button...



After successful read out zip-file will be created:



Hydrocal-#35345-20120830-221208.zip

Send this service file for the purpose of error analysis to our service team:  
[jha@emh.de](mailto:jha@emh.de) [pkp@emh.de](mailto:pkp@emh.de) [eha@emh.de](mailto:eha@emh.de)