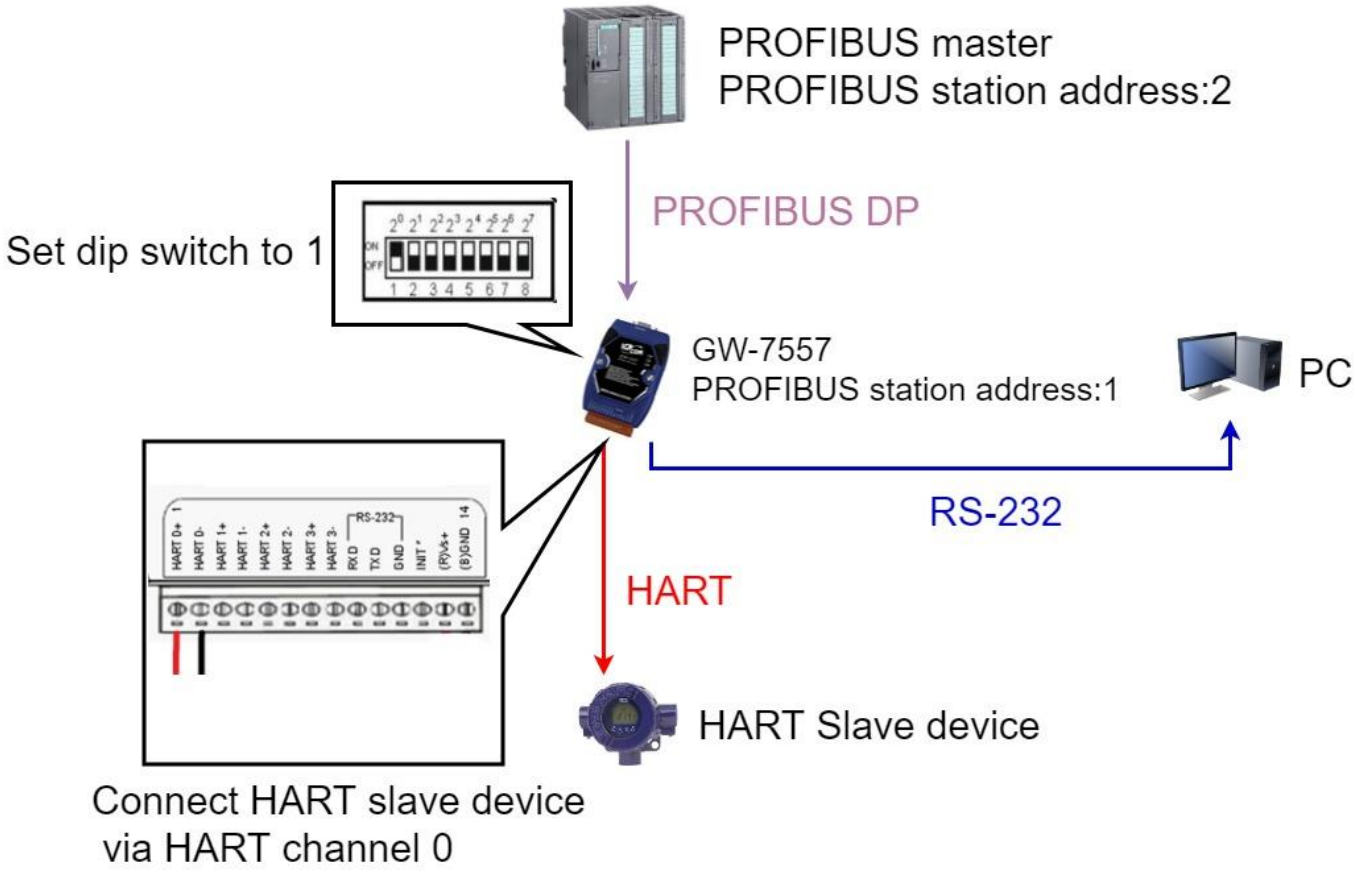
How to set HART Command in GW-7557 example for SIMATIC STEP 7

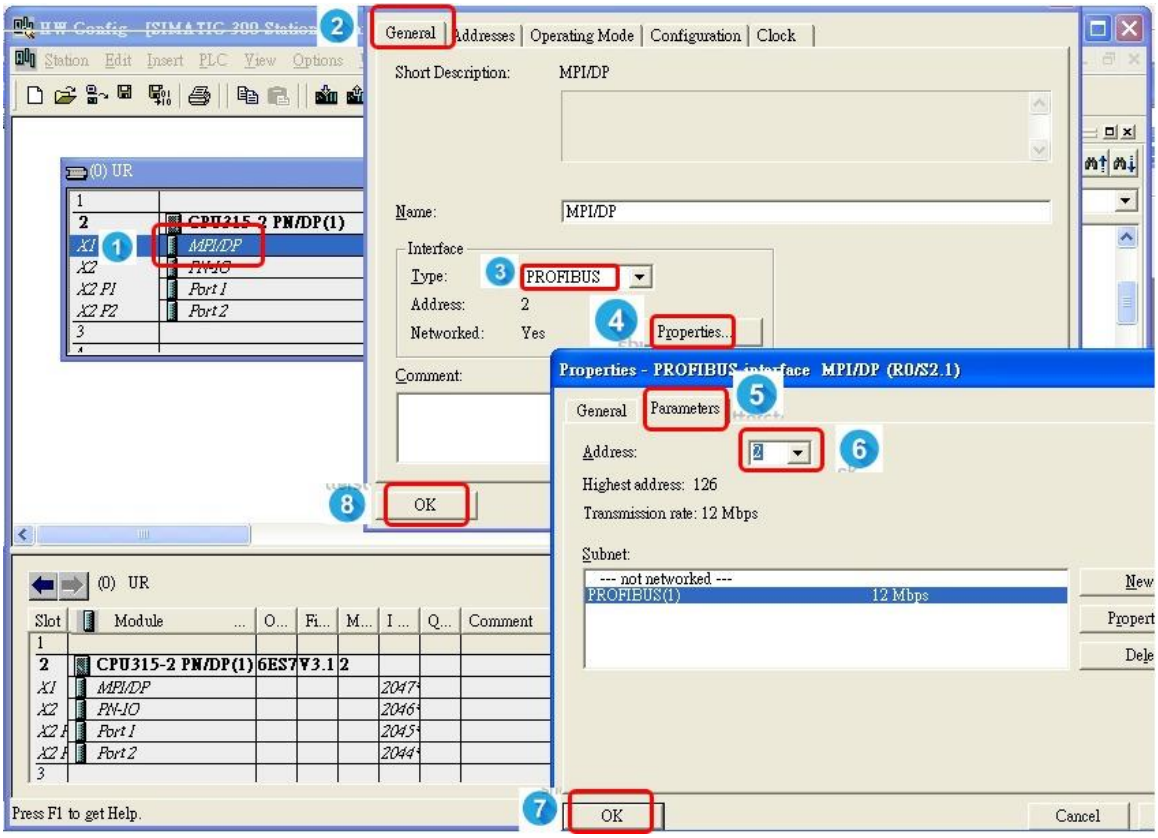
Step 1: Wiring diagram



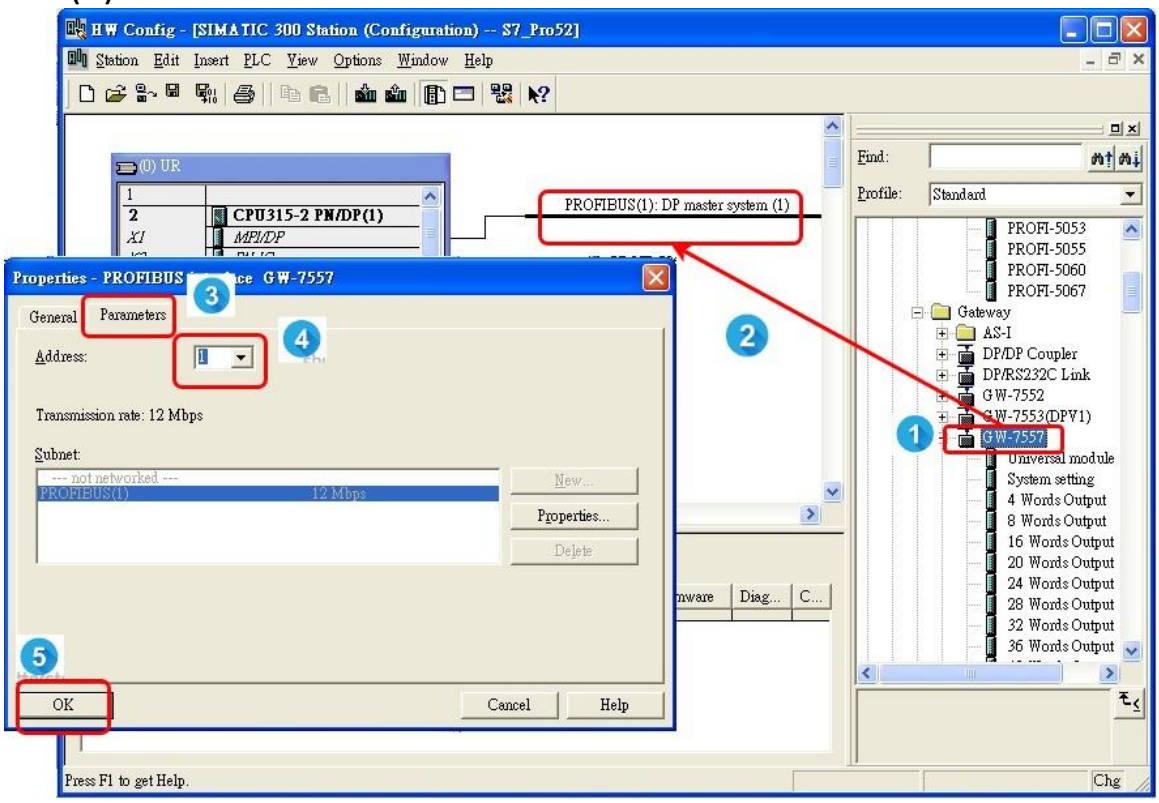
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Step 2: Set up GW-7557 in SIMATIC STEP 7

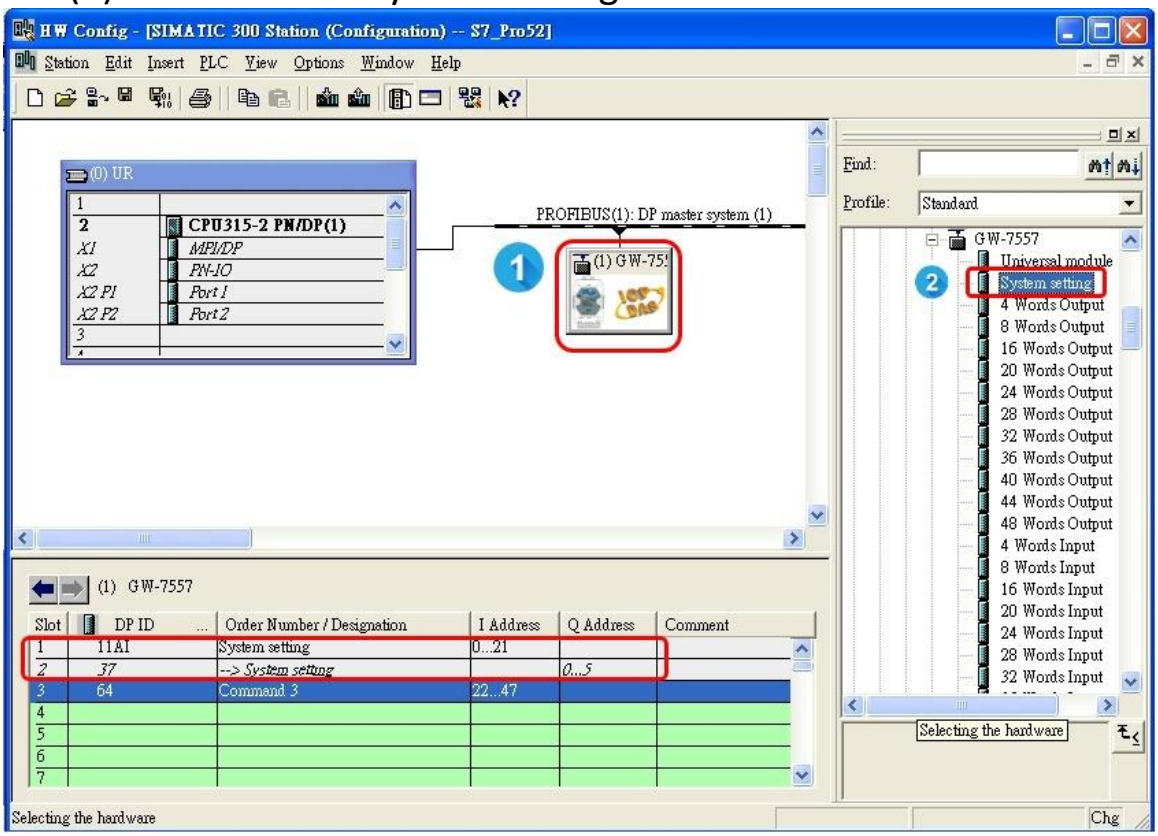
1. Set PLC PROFIBUS station address.
   (1) Double click “PROFIBUS DP” interface
   (2) Select “General”
   (3) Select “PROFIBUS”
   (4) Click “Properties”
   (5) Select “Parameters”
   (6) Select “2”
   (7) Click “OK”
   (8) Click “OK”



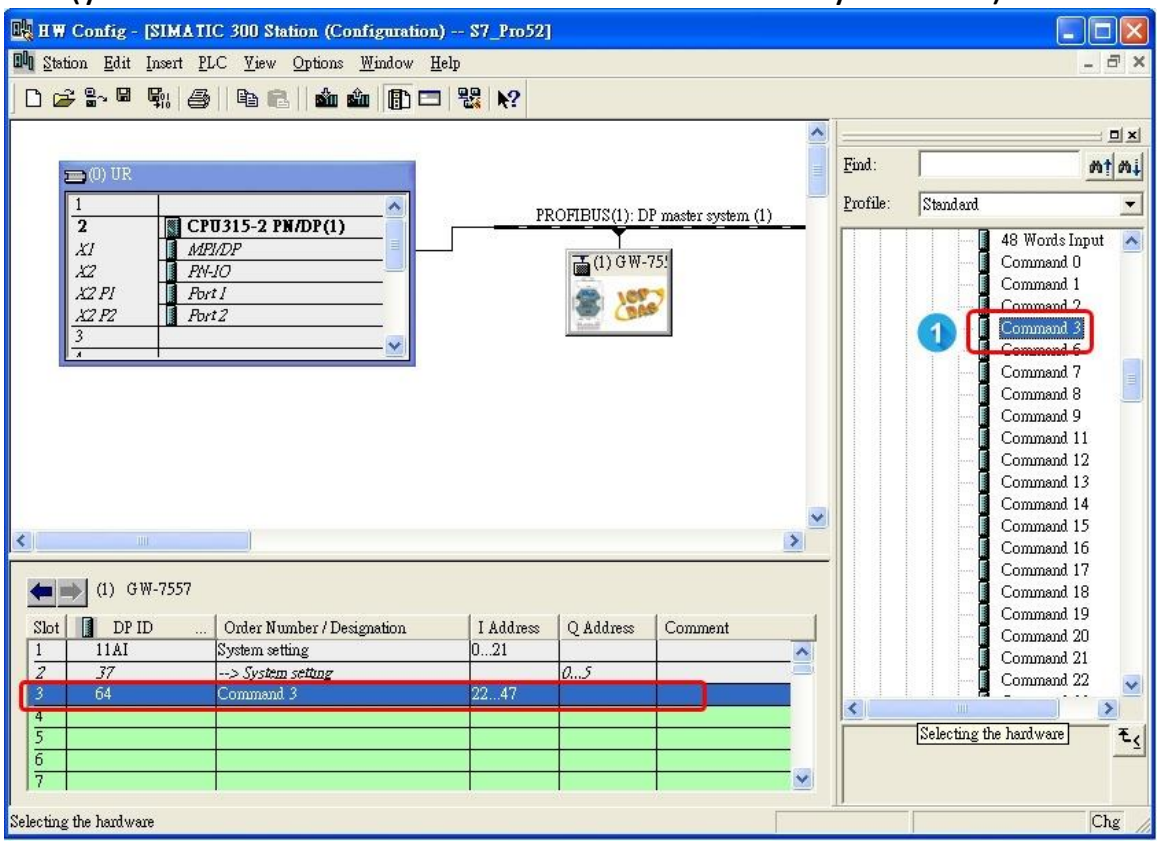
2. Set GW-7557 PROFIBUS station address.
   (1) Select “GW-7557”.
   (2) Drag “GW-7557” to PROFIBUS DP system.
   (3) Select “Parameters”.
   (4) Select “1”.
   (5) Click “OK”.



3. Set GW-7557 module.
   (1) Select GW-7557
   (2) Double click “System setting”

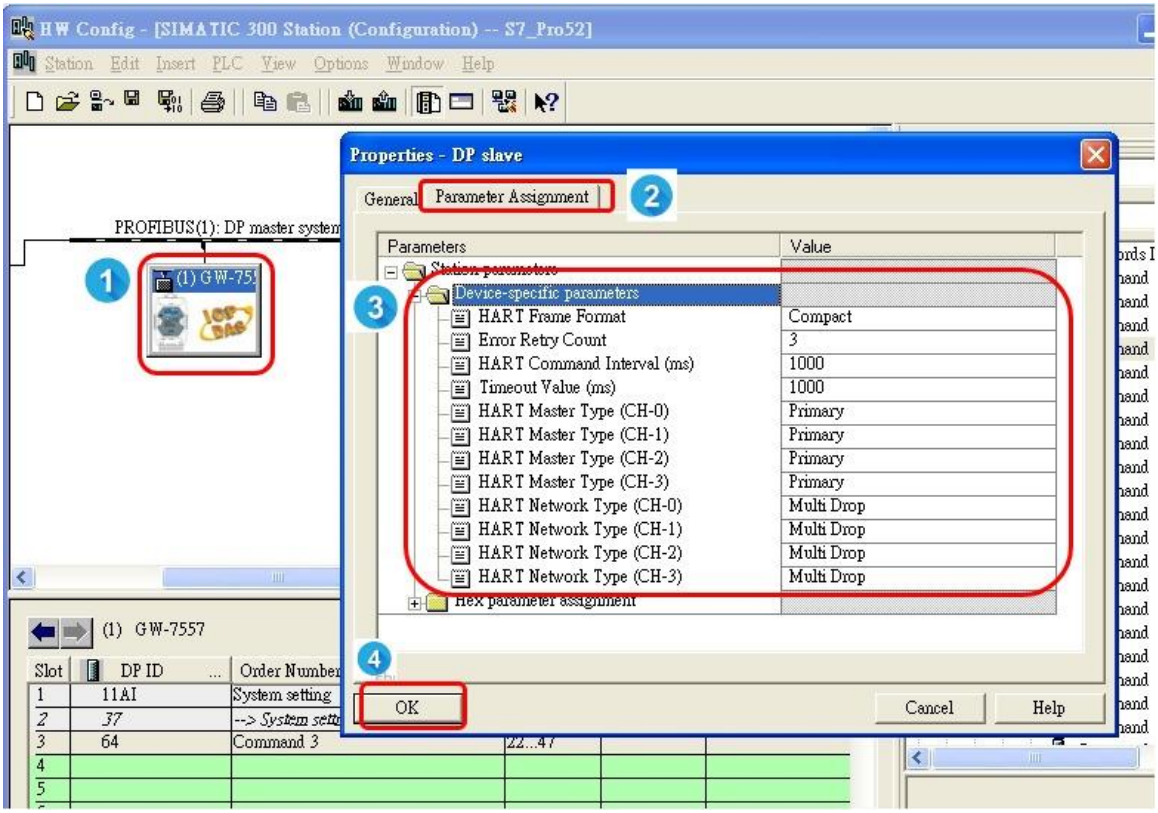


4. Set HART Command
   (1) Double click “Command 3”
   (you can choose other HART command that you need)

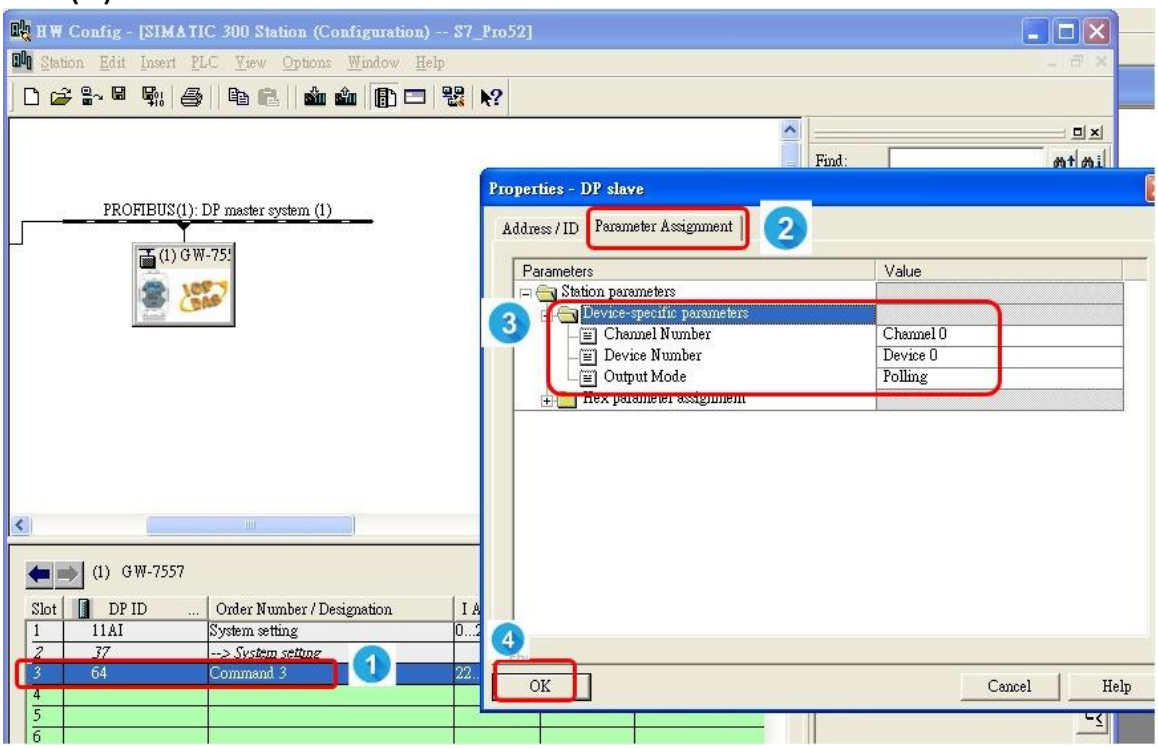


5. Set GW-7557 device parameters.
   (1) Double click “GW-7557”
   (2) Select “Parameter Assignment”
   (3) Set device parameters of GW-7557:
   - HART Frame Format: Compact
   - Error Retry Count: 3
   - HART Command Interval(ms): 1000
   - Timeout Value(ms): 1000
   - HART Master Type(CH-0): Primary
   - HART Master Type(CH-1): Primary
   - HART Master Type(CH-2): Primary
   - HART Master Type(CH-3): Primary
   - HART Network Type(CH-0): Multi Drop
   - HART Network Type(CH-1): Multi Drop
   - HART Network Type(CH-2): Multi Drop
   - HART Network Type(CH-3): Multi Drop

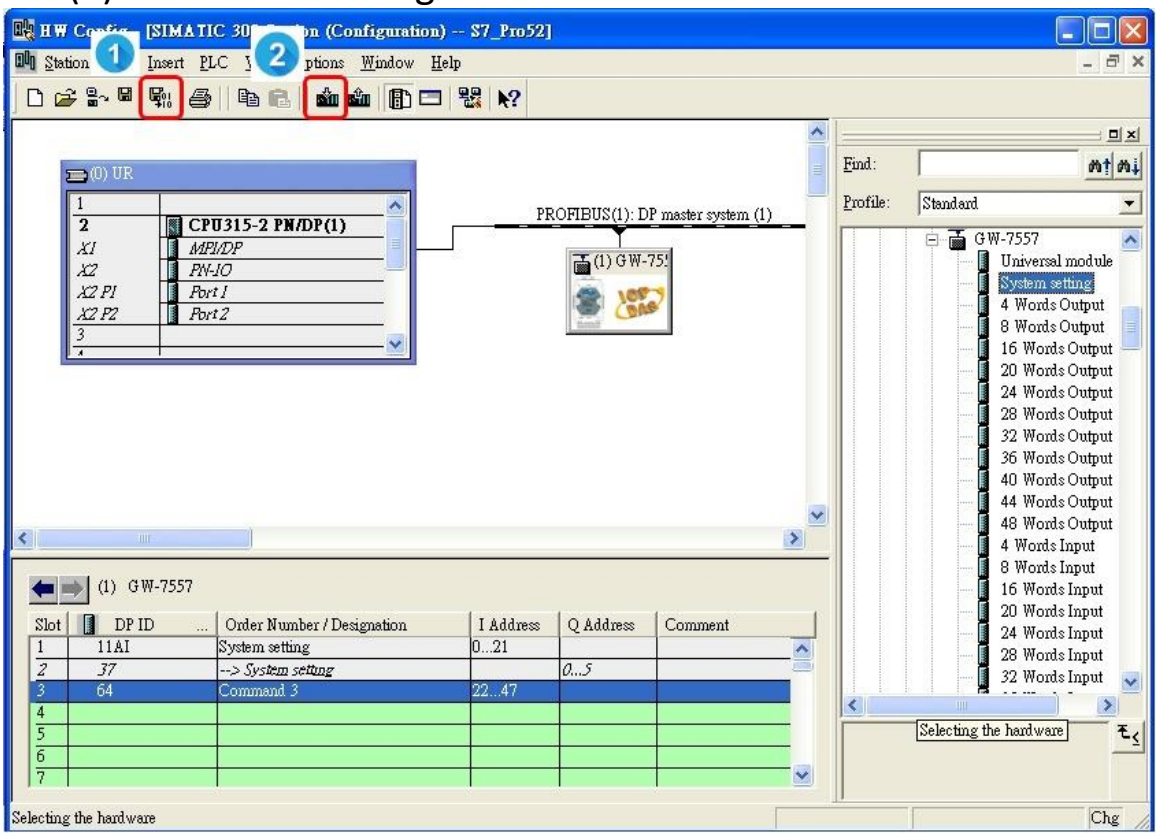
   (4) Click “OK”



6. Set module parameters
   (1) Double click “command 3”
   (2) Select “Parameter Assignment”
   (3) Set module parameters of “command 3”:
   - Channel Number: Channel 0
   - Device Number: Device 0
   - Output Mode: Polling
   (4) Click “OK”



7. Save, compile, and download to PLC
   (1) Save and Compile
   (2) Download settings into PLC

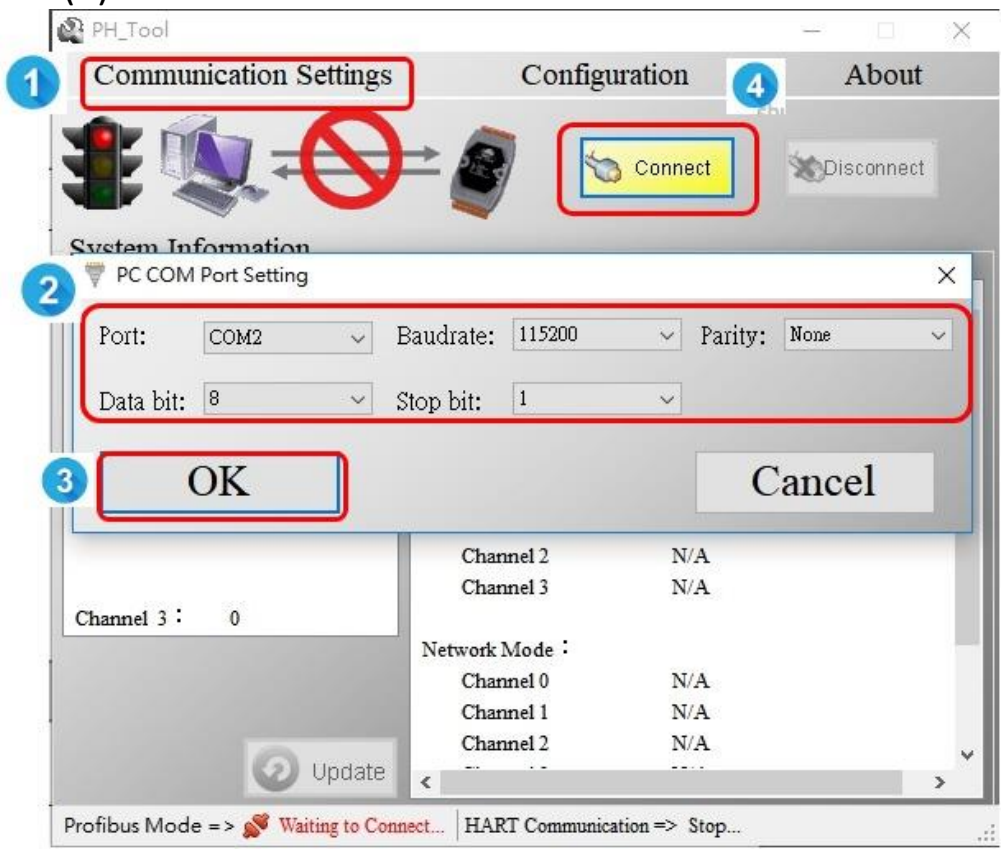


Step 3: Set up HART slave device via “PH_Tool”

1. Double click “PH_Tool” icon to open “PH_Tool”

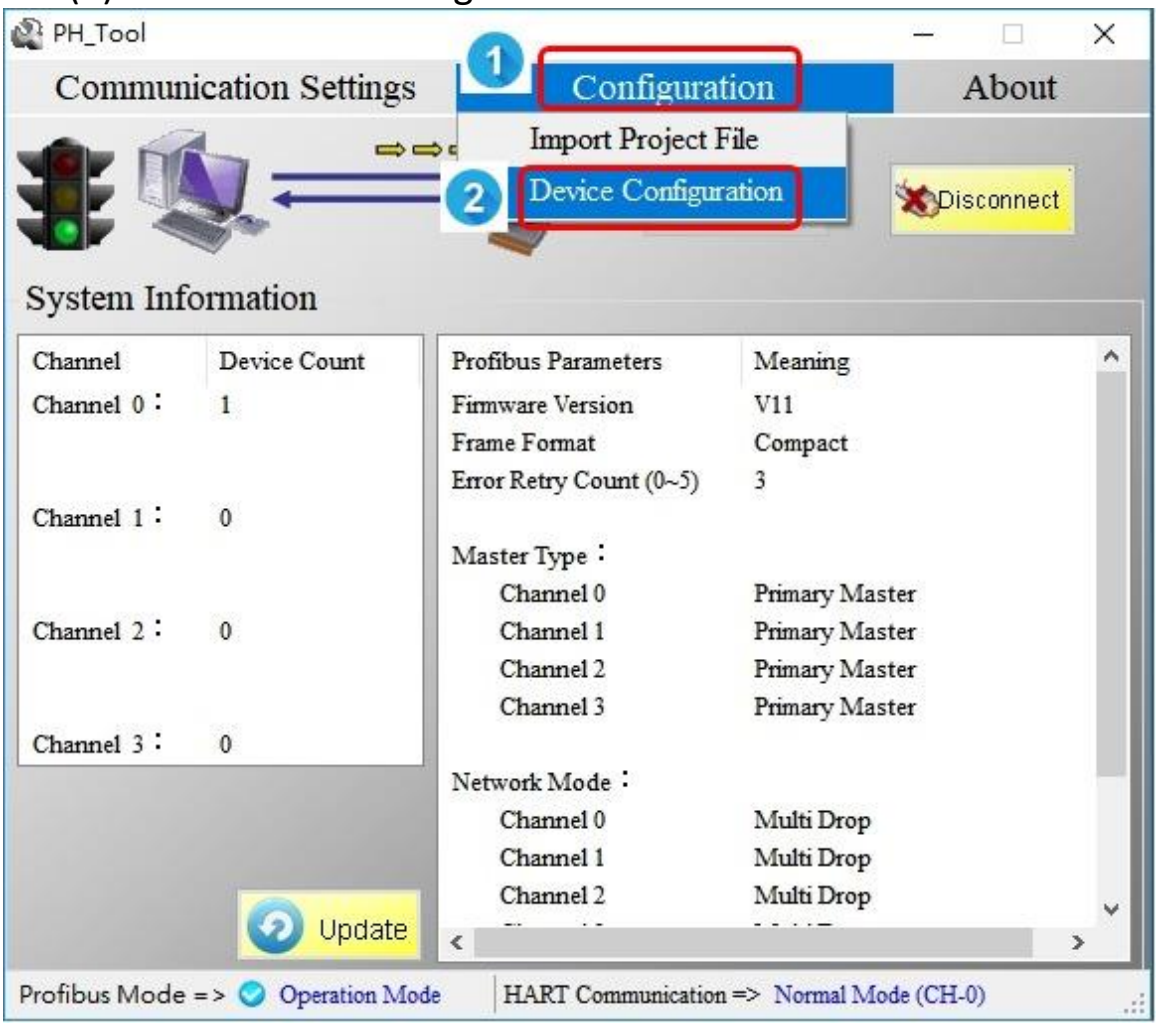


2. PH_Tool connects GW-7557
   (1) Select “Communication Settings”.
   (2) Set communication settings of PC com port, these settings have to be the same with GW-7557, or else the connection will be failed.
   (3) Click “OK”
   (4) Click “Connect”



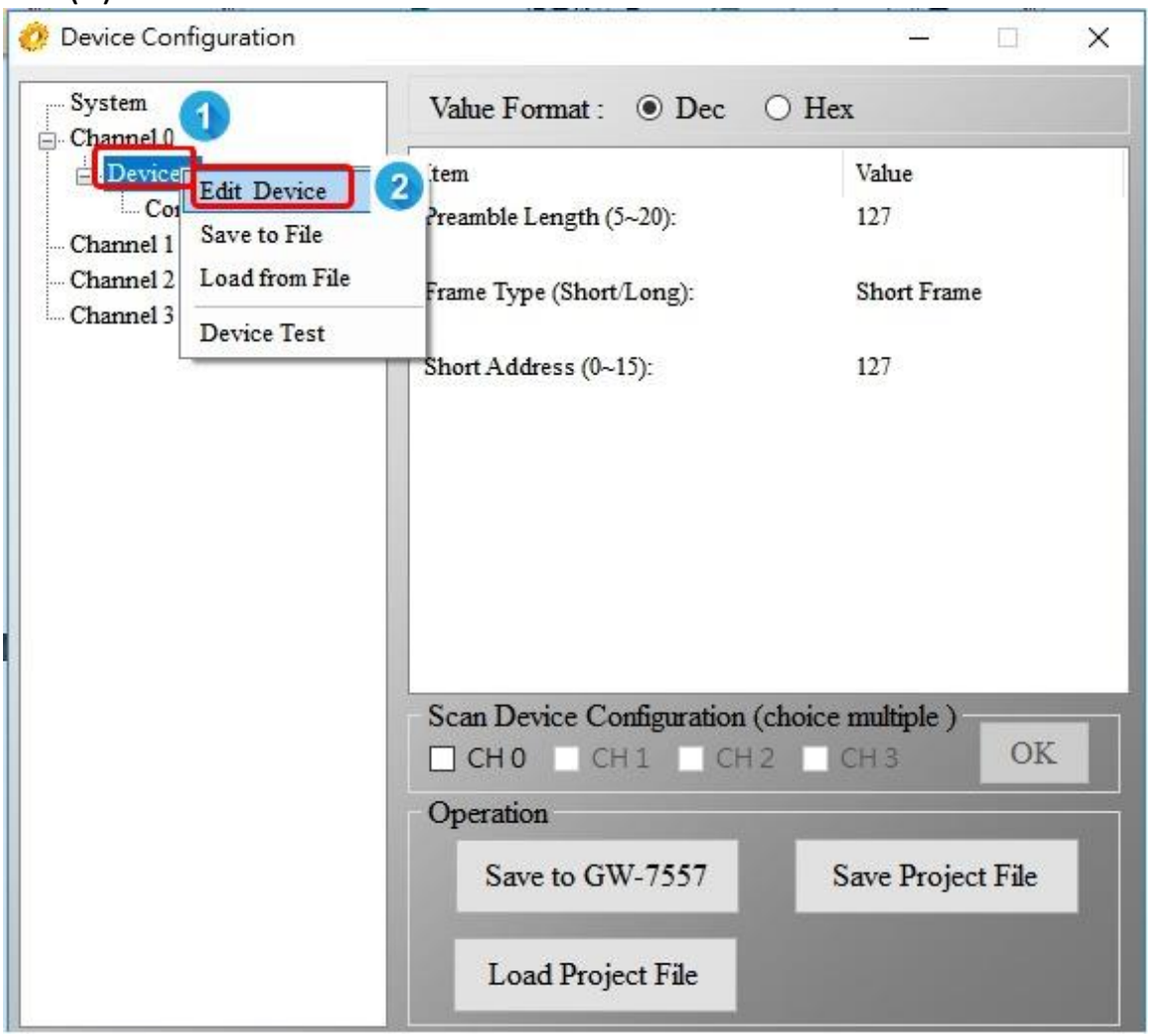
If you forget the Com port settings of GW-7557, please refer to GW-7557 user manual 2.6.

3. Set GW-7557
   (1) Click “Configuration”
   (2) Click “Device Configuration”

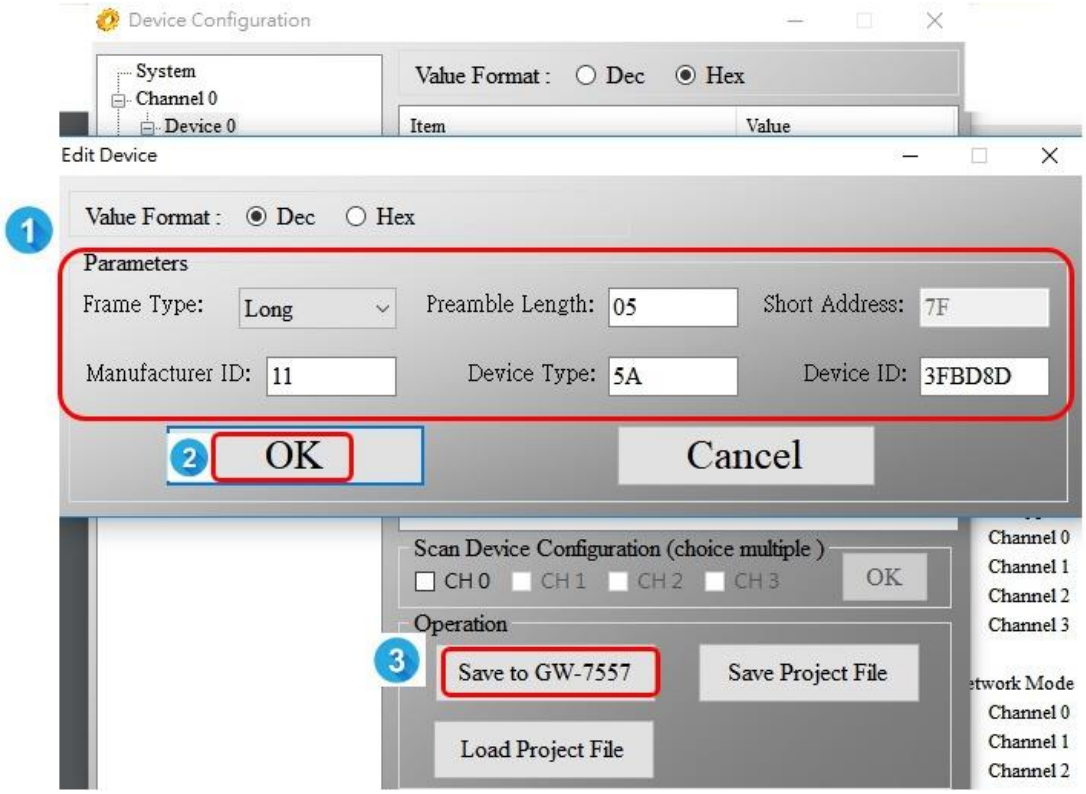


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4. Set GW-7557
   (1) Right click “Device 0”
   (2) Click “Edit Device”

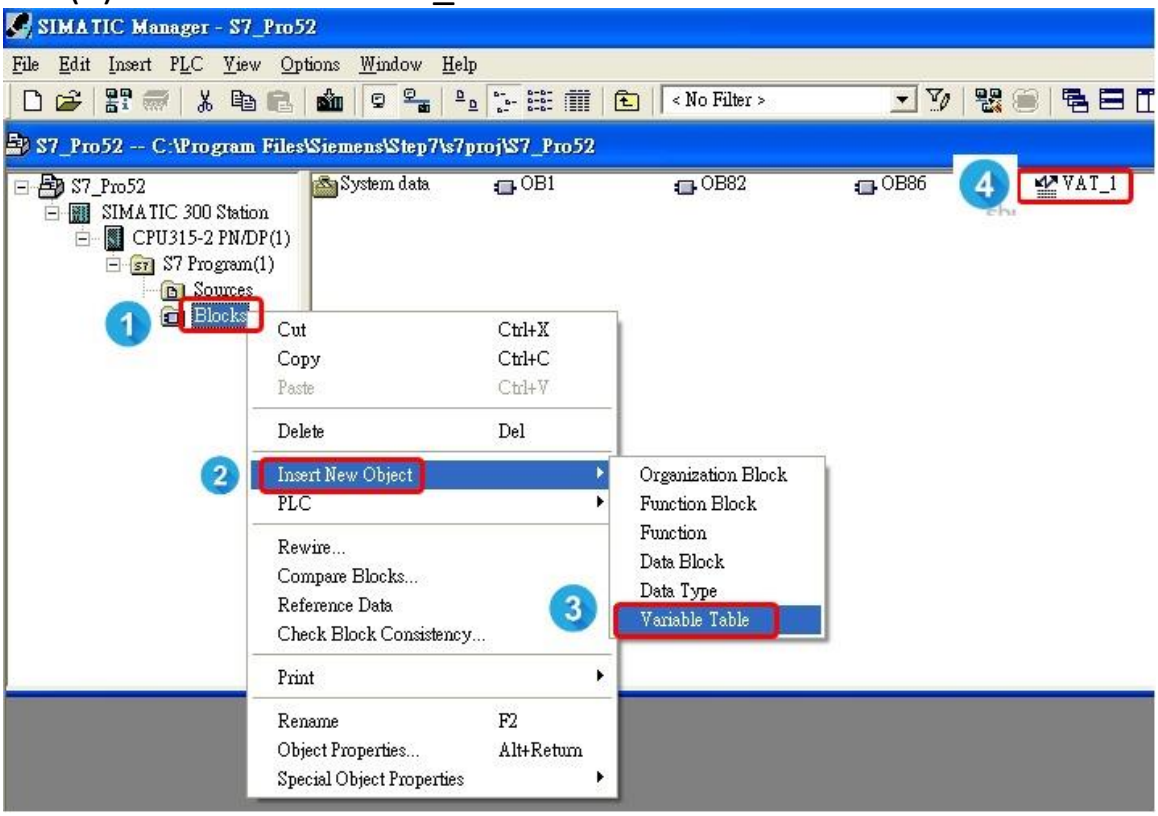


5. Set the parameters of HART slave device
   (1) Set the parameters of HART slave device.
   Please access these parameters from the manual of HART slave device.
   (2) Click “OK”
   (3) Click “Save to GW-7557”



Step 4: Show the HART data in the variable table

1. Establish a variable table
   (1) Right click “Blocks”
   (2) Select “Insert New Object”
   (3) Select “Variable Table”
   (4) Double click “VAT_1”



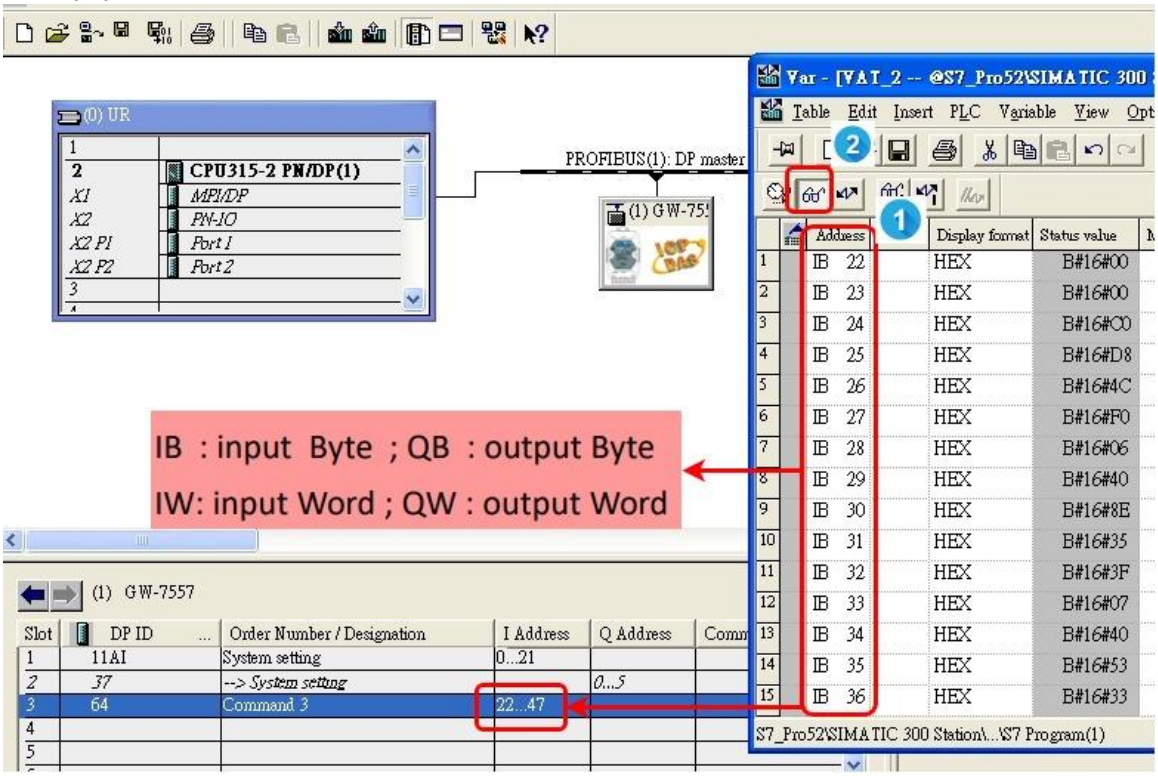
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2. Set variable table

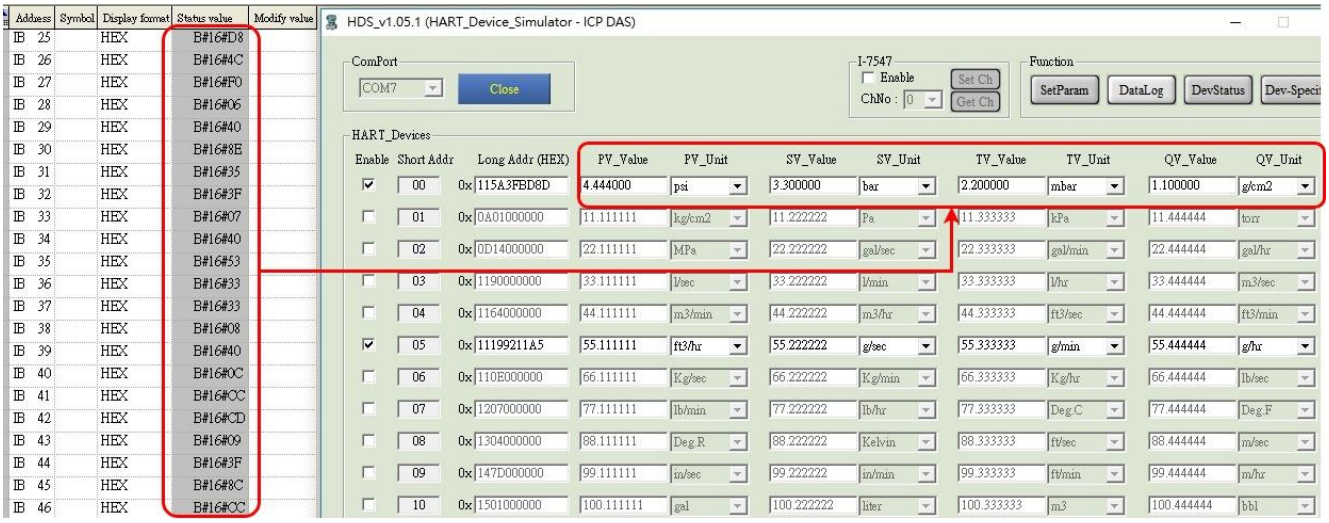
(1) Key in “command 3” data address.

The data address in VAT_1 correspond module address.

(2) Click monitor button.



3. Receive HART command 3 data from HART Slave device.



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