Set CDiff

Set the calibrated position difference of the Herkulex motor

Contents

Syntax

```
setCDiff(sObject,pID,val)
```

Description

setCDiff(sObject, pID,val) sets the calibrated difference value in the EEP. Changes will only takes into effect after a reboot command.

- Formula: Calibrated Difference = Absolute Position - Calibrated Position
- EEP address for calibrated difference: 0x35(53).

Input Arguments

- sObject - serial port object
- pID - integer
- val - integer

Function Codes

```
function setCDiff(sObject, pID, val)

    addr = '35'; % EEP Addr: 0x35(53)

    val = dec2hex(val,2);

    data = strcat(addr,'01',val);    % Write 1 byte data

    packet = pkGen(pID,01,data);

    inHkx(sObject, packet);
```

```
    % Reboot to refresh EEP

    reboot(sObject, pID);

    pause(1);   % Wait for reboot



    % Confirm changes by reading the value from the EEP

    CDiff = getCDiff(sObject, pID);

    fprintf('Calibrated Difference = %d\n', CDiff);

end
```

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