

## setEKp

Set the EEP proportional gain

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### Syntax

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```
setEKp(pID, val)
```

### Description

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setEKp(pID,val) sets the proportional gain of Herkulex motor in EEPROM. Changes will only takes into effect after a reboot command.

- EEP address for Kp: 0x1E(30), Kd: 0x20(32), Ki: 0x22(34)

Refer to Herkulex Manual pg28 for EEP map of gains.

### Input Arguments

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- pID - string
- val - integer

### Function Codes

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```
function setEKp(pID, val)

    addr = '1E'; % Addr of Kp: 0x1E(30)

    val = dec2hex(val,4);

    data = strcat(addr,'02',val(3:4),val(1:2)); % Byte input in reverse order by
    Little Endian rule

    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

EKp = getEKp(sObject, pID);

fprintf('Proportional Gain = %d\n', EKp);

end
```