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# -- Configuration Options for PhyPiDAQ
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#
# -- configuration files for hardware devices
#
#DeviceFile: config/ReplayConfig.yaml      # data from File
#optional:
#DeviceFile: config/ToyDataConfig.yaml    # simulated data

# other options(requires connected hardware):
DeviceFile: config/ADS1115Config.yaml     # 16 bit ADC, I2C bus
#DeviceFile: config/MCP3008Config.yaml    # 10 bit ADC, SPI bus
#DeviceFile: config/MCP3208Config.yaml    # 12 bit ADC, SPI bus
#DeviceFile: config/PSConfig.yaml        # PicoTechnology USB scope
#DeviceFile: config/PSConfig2000.yaml    # PicoTechnology USB scope
220xA
#DeviceFile: config/MAX31865Config.yaml   # Pt 100 sensor
#DeviceFile: config/GPIOCOUNT.yaml       # frequency count
#DeviceFile: config/DS18B20Config.yaml    # digital temperature
sensor
#DeviceFile: config/MAX31855Config.yaml   # thermo element
#DeviceFile: config/BMP180Config.yaml     # pressure/temperature
sensor
#DeviceFile: config/INA219Config.yaml     # Voltage/Current sensor
#DeviceFile: config/MMA845xConfig.yaml    # Accelerometer
#DeviceFile: config/MLX90393Config.yaml   # Magnetometer

## an example of multiple devices
#DeviceFile: [config/ADS1115Config.yaml, config/GPIOCOUNT.yaml]

#
# -- configuration options for Channels
#
ChanNams: [ U, I, U, I, U, I ]
#ChanLabels: ['X1', 'X2']                # names for channels
ChanUnits: [ V, mA, V, mA, V, mA ]      # units for channels
#ChanLabels: [U, U]                      # names for channels
#ChanUnits: [V, V]                       # units for channels
ChanColors: [black, red, black, green, black, blue] # channel
colours in display

# eventually overwrite Channel Limits obtained from device config
ChanLimits:
- [0., 2.8]    # U D1
- [0., 15.]   # I D1
- [0., 2.8]   # U D2
- [0., 15.]   # I D2
- [0., 2.8]   # U D3
- [0., 15.]   # I D3

# calibration of channel values
# - null      or - <factor> or - [ [ <true values> ], [ <raw
values> ] ]
#ChanCalib:
# - 1.                # chan0: simple calibration factor

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# - [ [0.,1.], [0., 1.] ] # chan1: interpolation: [true](<raw>
)
# - null # chan2: no calibration

# apply formulae to (calibrated) channel values
ChanFormula:
- c1 # U D1
- (c0 - c1)*10 # I D1 c1 in mA
- c2 # U D2
- (c0 - c2)*10 # I D2 c2 in mA
- c3 # U D3
- (c0 - c3)*10 # I D3 c3 in mA

#
# -- configuration options for graphical display
#
Interval: 0.05 # logging interval
NHistoryPoints: 250 # number of points used in history
buffer
DisplayModule: DataLogger # history of channel signals
#DisplayModule: DataGraphs # text, bar-graph, history and xy-
view
Title: "Kennlinie dreier LED" # display title
XYmode: True # enable/disable XY-display
## if more than two channels active:
Chan2Axes: [0, 1, 0, 1, 0, 1] # assign channels to axes
xyPlots: # define which axes to show
- [0, 1] # in xy-plot
- [2, 3]
- [4, 5]

#
# -- configuration options for output to file
#
DataFile: testfile.csv # file name for output file,
#DataFile: null # null to disable
CSVseparator: ';' # field separator, set to ';' for
German Excel

# enable buffering of latest data (depth NHistoryPoints from above)
#bufferData: PhyPiData # file name to track latest data and
eventually
#bufferData: null # store them, or null to switch off

# control status LEDs
#RunLED: 20 # display run status on GPIO pin 20
#ReadoutLED: 21 # display readout on GPIO pin 21

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