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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/groveADCCConfig.yaml  # 12 bit ADC on grove RPI
shield
#DeviceFile: config/MCP3208Config.yaml    # 12 bit ADC, SPI bus
#DeviceFile: config/PSCConfig.yaml        # PicoTechnology USB scope
#DeviceFile: config/PSCConfig2000.yaml    # PicoTechnology USB scope
220xA
#DeviceFile: config/MAX31865Config.yaml    # Pt 100 sensor
#DeviceFile: config/GPIOCCount.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/MLX90393Config.yaml, config/INA219Config.yaml ]

#
# -- configuration options for Channels
#

# possibility to overwrite Channel Limits obtained from device
config
ChanLimits:
- [0., 10.] # chan 0
- [0., 0.5] # chan 1
##- [0., 10.] # chan 2

# calibration of channel values
# - null or - <factor> or - [ [ <true values> ], [ <raw
values> ] ]
#ChanCalib:
# - 1. # chan0: simple calibration factor
# - [ [0.,1.], [0., 1.] ] # chan1: interpolation: [true]([<raw>]
)
# - null # chan2: no calibration

# apply formulae to (calibrated) channel values
ChanFormula:
- sqrt(c0*c0+c1*c1+c2*c2)-0.3 # chan0 for B_resultant
- c3 # chan1

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# - null          # chan2 : no formula

#
# -- configuration options for graphical display
#
Title: "B(I) in Coil"          # display title
#ChanLabels: ['X1', 'X2']      # names for channels
#ChanUnits: ['a.U.', 'a.U.']  # units for channels
#ChanLabels: [U, U]           # names for channels
ChanUnits: [mT, A]            # units for channels
ChanNams: [B, I]              # names for channels
ChanColors: [darkblue, sienna] # channel colours in display

Interval: 0.1                  # logging interval
#NHistoryPoints: 120           # number of points used in history
buffer
#DisplayModule: DataLogger     # history of channel signals
DisplayModule: DataGraphs     # text, bar-graph, history and xy-view
XYmode:      true             # enable/disable XY-display
## if more than two channels active:
#Chan2Axes: [0, 1, 0]         # assign channels to axes
xyPlots:      # define which axes to show
- [1, 0]      # in xy-plot
# - [0, 2]
# - [1, 2]

#
# -- 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 store and track latest data
#bufferData: null            # 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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