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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/groveADCConfig.yaml   # 12 bit ADC on grove RPI
shield
#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/MLX90393Config.yaml, config/VL53LxConfig.yaml]

#
# -- configuration options for Channels
#

# possibility to overwrite Channel Limits obtained from device
config
ChanLimits:
 - [0., 3.]    # chan 0
 - [-100., 100.]    # chan 1
## - [0., 1.]    # 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)  # chan0 for B_resultant
```

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  - c3-180          # chan1; 180mm is the distance of the sensor to
the centre of the coil;
#  - null         # chan2 : no formula

#
# -- configuration options for graphical display
#
Title: "B(s)_Coil"              # display title
#ChanLabels: ['X1', 'X2']            # names for channels
#ChanUnits: ['a.U.', 'a.U.']         # units for channels
#ChanLabels: [, U]                  # names for channels
ChanUnits: [mT, mm]                  # units for channels
ChanNams: [B, d]                 # 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:     false              # enable/disable XY-display
## if more than two channels active:
#Chan2Axes: [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
```