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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: [I, U]                          # names for channels
ChanUnits: [mA,V]                          # units for channels
#ChanLabels: [U, U]                        # names for channels
#ChanUnits: [V, V]                         # units for channels
ChanColors: [darkblue, sienna]            # channel colours in display

# eventually overwrite Channel Limits obtained from device config
ChanLimits:
- [0., 8.] # chan 0_current
- [0., 3.] # chan 1_voltage
## - [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:

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- c0*1000 # chan0 in mA
- c1      # chan1, no Formula
# - null  # chan2 : no formula

#
# -- configuration options for graphical 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
Title: "Multimeter" # display title
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 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

```