Time chart

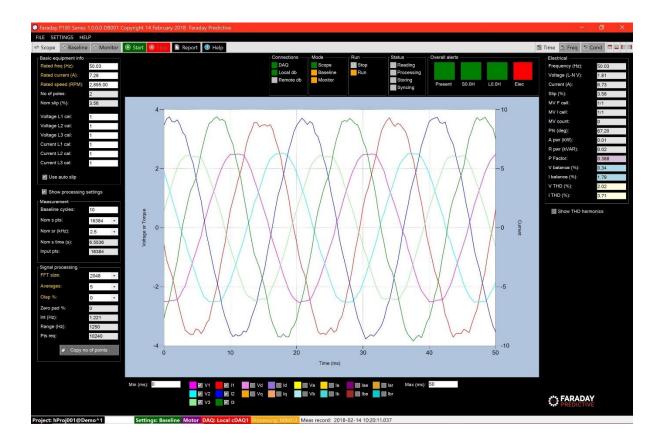


Chart summary

The Time chart allows the user to plot electrical parameters in the time domain.

Controls

Minimum and maximum times in milliseconds can be entered in the appropriate text boxes below the chart.

Measured parameters can be selected/deselected for display using checkboxes, and the colour of each plot can be changed by clicking on the colour label for that parameter.

Axis

The x axis represents time in milliseconds. A 50Hz electrical waveform has a cycle of 1/50Hz = 0.02s. The y axis represents the instantaneous value of the voltage (left hand side) or current (right hand side).

Parameters

Туре	Parameter	Description
Raw	V1	Raw voltages (Phase 1, 2 and 3) measured and sampled with P100,
Measurements	V2	with applied analogue (25kHz) and digital (5KHz) low pass filtering.
	V3	
	11	Raw currents (Phase 1, 2 and 3) measured and sampled with P100,
	12	with applied analogue (25kHz) and digital (5KHz) low pass filtering.
	13	
Combined	Va	Raw voltages and currents in the Alpha-Beta reference frame. They
Measurements	Vb	contain the same information than the raw parameters but on a
	la	two phase system.
	Ib	
	Vd	Raw voltages and currents in the Direct-Quadrant reference frame.
	Vq	They contain the same information than the raw parameters but
	Id	on a two-phase system. This D-Q refence rotates following the line
	Iq	frequency.
Modelling	lae	Estimated currents in the Alpha-Beta reference frame after
estimates	Ibe	applying the model.
Residual	lar	Residual currents in the Alpha-Beta reference, calculated as the
measurements	Ibr	difference between the Combined measurements minus the
		modelling estimates.

