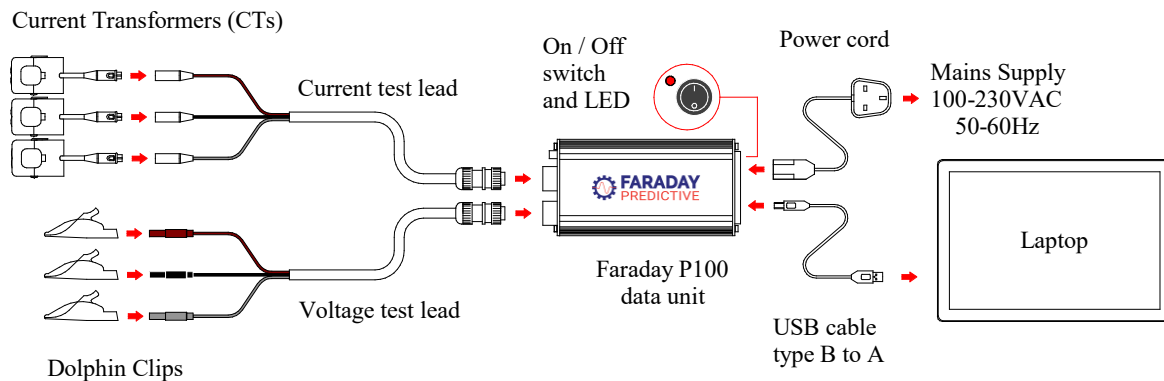# System Overview

System components

The P100 packages consists of a measurement unit, a set of voltage and current probes, and a laptop PC running the P100 Series Software application.

Voltage and current probes

The P100 system is supplied with the following voltage and current probes:

- Voltage and Current Test Leads, a set of two 3 metres test leads for connecting to the motor electrical supply or equivalent monitoring or protection system.
- Current Transformers (CTs), for measuring current at:
  - Motor supply, a set of 3 Split Core CTs, 300A to 10mA
  - Protection or Monitoring systems, a set of 3 Spring Clamp CTs, 10A to 10mA
  - Test Blocks, a set of 3 Special CTs to connect to Protection or Monitoring systems using MMLB01 plug provided (only with P102 package).
- Voltage probes, for connecting to measuring points at:
  - Live points inside the electrical cabinet, a set of 3 Dolphin clips
  - Test Blocks, a set of 3 banana adapters to connect to Protection or Monitoring systems using MMLB01 plugs provided (only with P102 package).

All of those items are summarized in an application table in the Operation Overview section.

P100 Series data units

The P100 Series data unit is the responsible for signal conditioning and data acquisition. The unit requires power from a typical 100-230V 50/60Hz socket and stores the data on the laptop provided. Communication is achieved using the USB port Type B on the rear of the P100 data unit.

Laptop PC

The P100 system is supplied with a lightweight, robust laptop PC on which the P100 Series Software application is installed.

Application

The P100 Series application provides a very wide range of processing options, from simple snapshot condition assessment to long-term condition monitoring.

Pelican case

The P100 packages come in a lightweight Pelican case.

Other accessories

The P100 packages come with power cords, USB cable and user's manual.