

LICENCE FREE

EN50160 & IEEE 1159 REPORTS

COMTRADE & PQDIF EXPORT

WINDOWS DESKTOP SOFTWARE

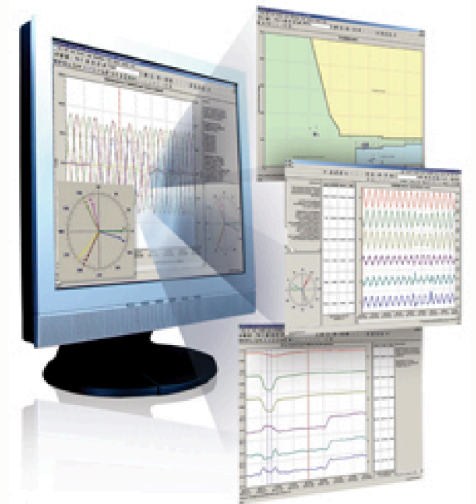
[View the PAS product page on satec-global.com.au ↗](https://www.satec-global.com.au)

PAS

Power Analysis Software for SATEC Instruments

PAS is SATEC's setup and analysis software for all SATEC instruments. It runs on a Windows laptop or desktop PC. PAS is supplied with every SATEC instrument at no additional cost and needs no licence.

PAS connects to meters over serial, Ethernet, USB or modem links. It retrieves data logs, event logs and waveforms into a local database. Built-in tools then turn that data into trends, harmonic spectra, phasor diagrams and automatic EN50160 and IEEE 1159 power quality reports.



PAS

Desktop software for instrument setup, data retrieval and power quality analysis

ExpertPower™

Web-based platform for energy management, billing and power quality analysis

eXpertConnect™ App

Mobile app that makes meter energy data simple to see and act on

Main Features

- Licence free and supplied with all SATEC instruments
- Simple offline instrument setup
- Automatic polling of devices
- Direct data access for status monitoring or analysis
- Automatic power quality reports for EN50160 and IEEE 1159
- Scheduled data log upload on a daily, weekly or monthly basis
- Serial, TCP/IP, USB and modem communications
- Graphics and reports for waveforms, harmonics and billing
- Export to Excel, CSV, database, COMTRADE and PQDIF
- Instrument self-test

Feature Capabilities

Instrument Configuration

- Build a site database for each meter with model, input options and communication settings
- Prepare setups offline, then download them to the instrument
- Setpoints, triggers and alarms with variable setpoints
- Memory allocation for data logging
- Upload of time-of-use (TOU) settings

Data Retrieval and Scheduler

- Retrieve all data logs from your meters at once and store them in a database
- Upload on demand or on a time basis
- Scheduler runs daily, weekly, monthly or periodic uploads
- Historical or current data logs, event logs and power quality logs

Real-Time Monitoring

- Real-time data polling with configurable sampling rates
- Continuous polling for live status monitoring
- Direct data access for monitoring or analysis
- Instrument self-test and diagnostics view

Power Quality Reporting

- Automatic power quality reports for EN50160 and IEEE 1159
- EN50160 compliance statistics and comparison tables for HV and LV applications
- G5/4 comparison tables for HV and LV applications
- Automatic power quality and fault categorisation
- ITI (CBEMA) curve

Waveform and Harmonic Analysis

- Waveform display and waveform comparison between sites
- Harmonic spectrum and harmonics power direction
- Vector analysis and phasor diagram
- Delta measurement

Trending and Graphics

- Trends for individual phases or all three phases together
- Trend over time from a data log or waveform
- Trends based on user-selected parameters or limits
- Automatic sort and filter capabilities
- Graphic and report tools for waveforms, harmonics and billing

Device Control and Maintenance

- Remote relay operation
- Instrument clock synchronisation
- Firmware upgrades
- Accumulator reset

Data Export

- Data and trend logs to XLS, CSV or MDB
- Easy export to spreadsheet, Word, Excel or database
- Waveform captures to COMTRADE and PQDIF
- Printing of logs, graphs and reports

Software Support

THE SATEC SOFTWARE AND APP ECOSYSTEM

Power Analysis Software (PAS)

- Desktop tool for configuring every SATEC instrument
- Local retrieval and in-depth analysis of logs, events and waveforms
- Supports commissioning, troubleshooting and power quality investigations

ExpertPower™ and the eXpertConnect™ App

- ExpertPower™ is a web-based platform for energy management, billing, demand response, power quality analysis and control
- The eXpertConnect™ App gives mobile access to meter energy data in a simple, practical format

Specifications

SYSTEM REQUIREMENTS

Platform	Windows laptop or desktop PC
Operating system	Windows 7, 8 and 10
Framework	Microsoft .NET Framework 4.5 or higher
Installation	Administrator privileges required for installation and first run
Database format	Microsoft Access .mdb for setup and log files

LICENSING

Licence	Licence free
Availability	Supplied with all SATEC instruments at no additional cost
Compatibility	All SATEC instruments

COMMUNICATIONS

Serial	RS standard serial lines, including RS-232
Ethernet	TCP/IP, including Modbus TCP/IP
USB	USB port
Modem	Telephone and cellular modem

DATA EXPORT

Data and trend logs	XLS, CSV, MDB
Waveform captures	COMTRADE, PQDIF
Office formats	Spreadsheet, Word, Excel or database

ANALYSIS VIEWS

Waveforms	Display, comparison between sites, delta measurement
Harmonics	Spectrum and harmonics power direction
Vectors	Phasor diagram
Voltage events	ITI (CBEMA) curve
Trends	Per phase or three phases together

DOCUMENTATION

Installation	PAS Installation Manual
First steps	PAS Getting Started Guide
Video	PAS installation video guide

Standards Support

Power Quality Reporting

- EN50160 automatic reports, compliance statistics and HV/LV comparison tables
- IEEE 1159 automatic power quality reports
- IEEE 519-2022

Harmonic Assessment

- G5/4 comparison tables for HV and LV applications

Voltage Tolerance

- ITI (CBEMA) curve

Data Exchange

- COMTRADE (IEEE standard common format for transient data exchange)
- PQDIF (power quality data interchange format)

Ordering Information

DOWNLOAD – INSTALL – CREATE SITE – CONNECT – CONFIGURE – ANALYSE

SOFTWARE

PAS Power Analysis Software licence	Licence free
Supplied with	All SATEC instruments
Installation file and latest update	PAS product page

DOCUMENTATION

Installation manual	PDF
Getting Started guide	PDF
PAS brochure	PDF
Installation video guide	YouTube

RELATED SATEC SOFTWARE

Web-based energy management platform	ExpertPower™
Mobile app for meter energy data	eXpertConnect™ App

PLACE AN ORDER



To get PAS set up, or to request a quotation for a SATEC instrument, contact the SATEC Australia sales team or scan the QR code.

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 ONLINE **satec-global.com.au/contact**

DOCUMENT REVISION HISTORY

REV	DATE
TBV1.0	1 October 2026