

SPMS Questionnaire

What kind of power systems do you need to monitor?
Please note the voltage and current range
3 phase Y
3 phase
Split residential
Single phase
Maximum insulated wire size
Frequency if not 60Hz

What do you need to measure?
RMS voltage
RMS current
Waveforms
Harmonic voltage
Harmonic current
Power
Peak demand
Real power
Power factor
Reactive power
Distortion power
Transients
History
Energy (kWh)

How often would you like to sample?
Every few seconds
Every few minutes
Hourly
Daily
Weekly
Monthly

The smart sensor must send its results to a computer
What computer do you have in mind?
Apple Macintosh
Intel/Microsoft PC
Workstation
Mainframe
Other

What software would you feel comfortable with?
Spreadsheets (MS Excel)
Database (MS Access)
SCADA
PEGASYS
Other

Do you have in-house programming capability?
Motorola 68HC11 assembler
C or C++
Visual Basic
FORTRAN
Labview
Other

What operating system do you use?
MacOS
MS Windows 95/98
LINUX
UNIX
Other

What control functions are you thinking about?
Automatic shutdowns
Programmed startups
Control of peak demand
Control of power factor
Identify failing equipment
Energy management system
Power quality study

What do you plan to do with the data measured?
Print it out and file it
Put it in a database
Control other things
Meet US Code Title 10 requirements
Display it continuously for viewing
Prepare power bills
Suggest changes in distribution of loads
Identify problems with power as delivered

For voltages higher than 480 Y or 277 smart sensors
require power on the data bus.
Will you need bus power?
How big is your proposed installation?
How many sensors?
Smart sensors are connected in parallel on a two wire bus.
Bus length from host to sensors?

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