EE-595
Power Quality Meter
Team 4

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Product Description

Purpose of Product:
- Single-phase power meter capable of measuring AC/DC voltage and current, power, apparent power, THD%, crest factor, and power factor.

Features:
- Voltage sensor input
- Non invasive current input
- Display and User inputs
- Control using Raspberry Pi model
- Ethernet interface module
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|                  | Selling Price: $2,000.00  
Component Costs: $750.00  
Assembly and test Costs: $250.00 | Product is to be used indoors mainly as an industry tool  
Operating Temperature Range: 0°C - 50°C | 120 V | RMS voltages and currents to accuracy of ± %1  
THD range of 00.00-99.99 with accuracy of ± %3  
Crest factor to accuracy of ± %5  
Voltage sags/swells to accuracy of ± %2  
Scope display with 8 bit resolution  
Max sample rate of 25 MS/s |
Advanced Block Diagram