**Overview**

Smart Check is a portable device based on state of the art technology in power and energy measurement. Smart Check is a portable HHC solution suitable for 1 phase and 3 phase electricity meter installations and accuracy testing. All the instantaneous values are simultaneously displayed and vector diagram makes it is easy to detect wiring faults in the voltage and circuits of meter installation.

By entering all relevant parameters like Active / Reactive and the number of pulses, the system can perform error measurement on electricity meters. Scanning head helps in detecting calibration pulses of meter for energy calculation.

Built in thermal printer is available in HHC for printing test report on site. Also a rechargeable battery is available in HHC to recharge the device at any time in the field. User friendly menu driven BCS helps to analyse each meter status including instant data with vector display.

**Features**

* Easy and user friendly operation with graphs and reports
* Interacts with energy meters and helps in installation and accuracy checking
* All instant values are displayed along with vector diagram
* Three phase Current measurement up to 60 Amps with error compensated clamp on CTs.
* Accuracy class 0.2 with compensated clamp on CTs
* Different modes of testing available in Pulse, Duration and Snap mode.o
* Mini clamp-on CT for testing meter without supply interruption
* Power and energy measurement of active, reactive and apparent energy
* Error measurement by entering all relevant parameter like meter constant and number of pulses.
* GUI based data management software for evaluation of the test results and test report generation
* Presentation of the measuring results and reports printing using integrated thermal printer at field
* Automatic alerts on display for wrong connections or missing currents
* A complete and light weight meter test set
* Windows based Base Computer Software (BCS) for data upload, analysis and reporting
* The curve display for voltage and current serves for analysing the signal quality. Two channels can be measured and displayed simultaneously (optional)
* Measures harmonics in voltage and current (optional)

**Technical Specifications**

|  |  |  |  |
| --- | --- | --- | --- |
| C:\Users\Aamani\Downloads\images.png | Electrical | Voltage | 240VAC (-30% / +20 %) |
| Current | 200mA to 60Amps with clamp on CT mode |
| Frequency | 50 Hz +/- 5 Hz |
| Power Factor | Zero lag – Unity – Zero lead |
| Voltage Burden | Less than 10VA |
| Current Burden | Less than 1VA |
| Accuracy (With clamp on CT mode) | 0.2 |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display | Colour graphic display with backlight |
| Keypad | Alpha numeric keypad with separate keys for alphabets & numbers |
| C:\Users\Aamani\Downloads\Icons\display resolution.png | Display Resolution | Voltage | 1/100 V |
| Current | 1/1000 A |
| Phase Angle | 1/100 degree |
| Frequency | 1/100 Hz |
| Power | 1/1000 kW/KVA/KVAR |
| Energy | 1/1000 Wh/VARh |
| Error | 1/100% |
| C:\Users\Aamani\Downloads\Icons\4-CommunicationPort.png | Communication Ports | USB | USB 2.0 |
| C:\Users\Aamani\Downloads\Icons\3-Memory.png | Memory | No. of Testing results | >10000 test results along with meter, consumer information |
| C:\Users\Aamani\Downloads\Icons\9-Dimensions.png | Dimensions | L x W x H in mm | 240 x 80 x 80 |
| Weight | < 1 kg |
| C:\Users\Aamani\Downloads\Icons\8-Optional.png | Other Specifications | Standards | IS13779, IS12346, IEC60687 |
| Pulse Scanner | LED Pulse for Electronic Meters |