

Portable Power Quality Analyzer Kit is specially designed Power quality Kit which demonstrate different Power Quality Faults and Parameters like Sag, Swell, Interruptions, Individual Harmonics, inter-harmonics and many more.

Things Portable Analyzer Kit can perform and demonstrate :-

1. Shows Nominal System voltage and Current value along with all power, energy, demand parameters (more than 250 parameters)
2. Power Quality Parameters like Sag, Swell, Over-current, Interruptions, etc
Individual Harmonics upto 51st, Inter-harmonics, THD, THDS, THDG, PWHD %THD Power, %THD Voltage and current
3. Load current variation using regulator, ALL Load interruption (temporary using Push button, Voltage sag, swell using change over switches)
4. Communication of ND45 with PC or Laptop using TCP/IP Ethernet, in-built web-server, FTP, MODBUS communication.
5. Phase wise lamp indication.
6. Under voltage, over voltage, under current, load unbalance, phase loss protection indication using Relays
7. Voltage, current real time waveform each phase wise, Phasor / vector diagram
8. Product trend of different parameters
9. Report generation in excel or PDF format in PC
10. System analysis of all different types of power quality issue in Power Archive software



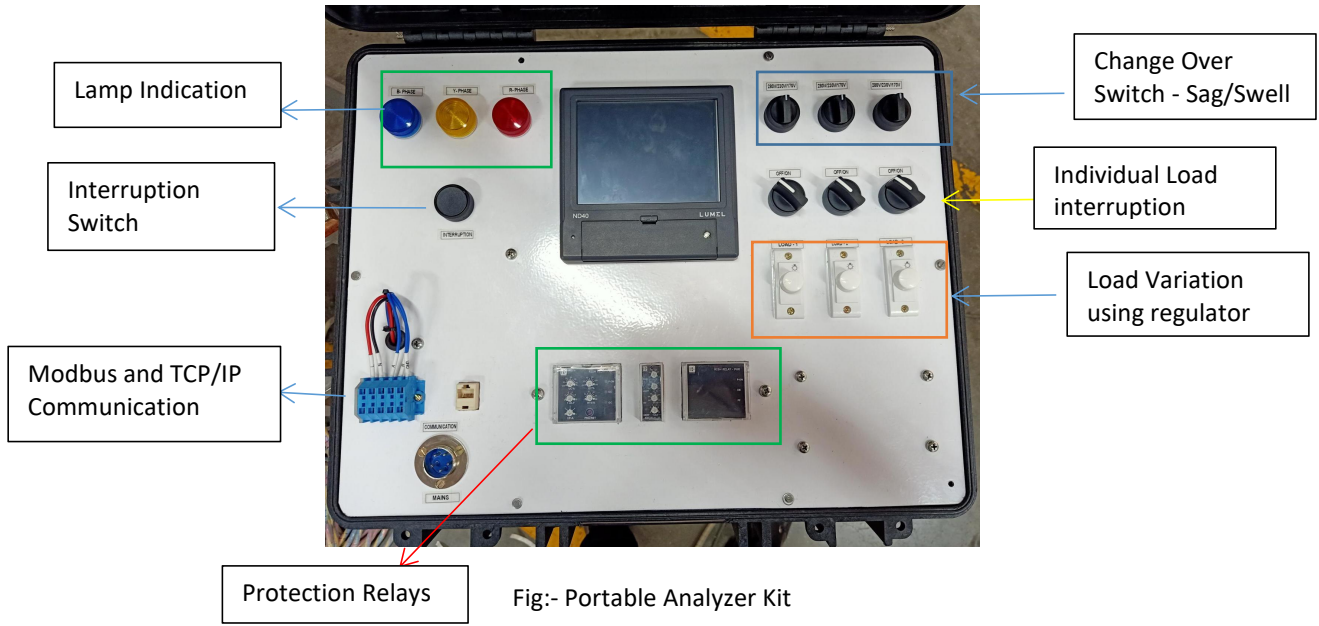


Fig:- Portable Analyzer Kit

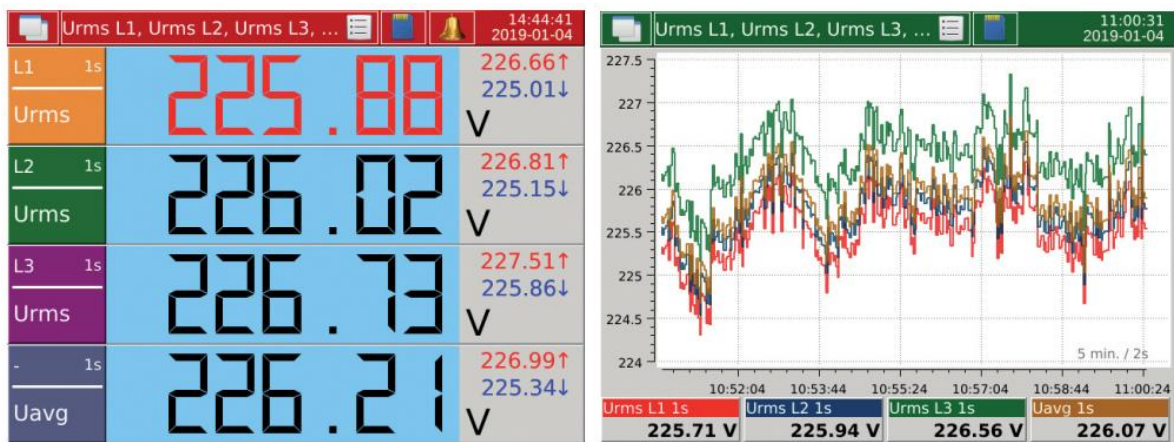
Technical Data

- Input Supply** - 3Ph 230VL-N/400 VL-L, with max 5A current.
- Accuracy Class** - 0.1%
- Display** - colour touch screen: lcd tft 5.6", 640 x 480 pixels.
- Communication** - web server (http protocol), Ftp server, dhcp client
- Memory** - data archiving on an Sd card - memory up to 32 GB.
- IP Protection** - IP65
- Installation Category** - Installation category III

Environmental

1. Operating temperature -20 to +70°C
2. Storage temperature -25 to +75°C
3. Relative humidity 0... 95%RH (non condensing)

View of Measurement Display



Measure



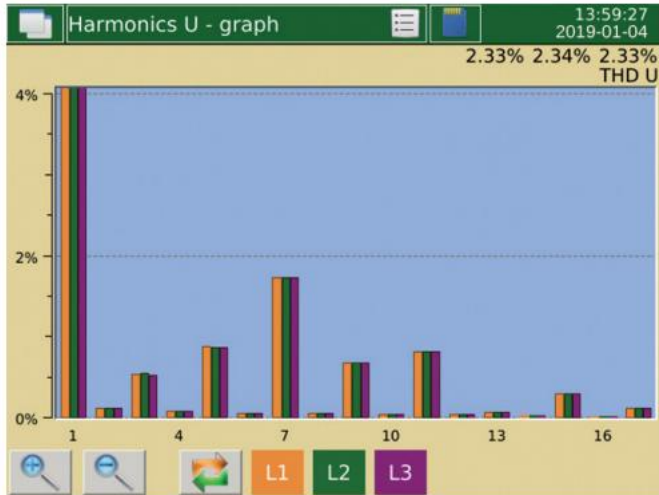
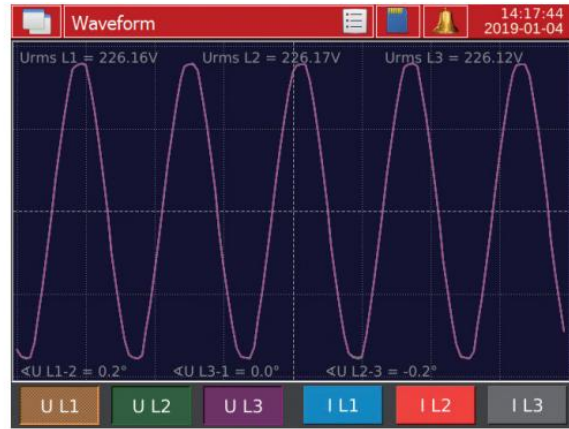
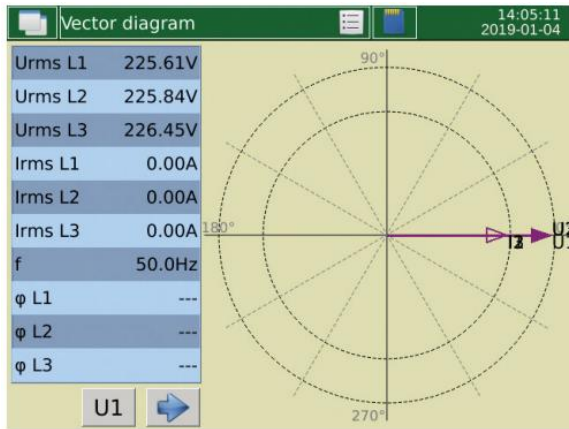
Control



Record



Analyze



Harmonics U - table showing a table of harmonic distortion levels for various orders (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).

	L1 [%]	L2 [%]	L3 [%]
THD	2.34	2.35	2.34
THDG	2.34	2.35	2.34
THDS	0.00	0.00	0.00
PWHD	2.34	2.35	2.34
1	100.00	100.00	100.00
2	0.05	0.04	0.05
3	0.78	0.79	0.78
4	0.02	0.02	0.02
5	0.63	0.63	0.63
6	0.02	0.02	0.02
7	1.78	1.79	1.78
8	0.03	0.03	0.03
9	0.66	0.66	0.66
10	0.03	0.03	0.03

FTP Server View

LUMEL ND45 Meter interface showing measurement data, alarms, files, and system information.

Measurement data

Name	Value
Urms L1 1s	226.07V
Urms L2 1s	226.10V
Urms L3 1s	226.04V
Irms L1 1s	0.0603A
Irms L2 1s	0.0603A
Irms L3 1s	0.0603A
Pavg 1s	0.0071kW
ΣP 1s	0.0214kW
ΣQ 1s	-0.0349kvar
ΣS 1s	0.0409kVA
PFavg 1s	0.52
Umfavg 1s	0.2533V

Alarms

Alarm 1 (Urms L1 200ms = 226.501V) (> 0.0)

Files: /ND40

Name	Modified	Size
Config_20190104_1026.ND45	2019-01-04 10:26:39	10.7 KB

System information

Device name	ND45
Device description	Power Analyzer
Serial number	16010002
System version	0.2.11
Used space on SD card	

Index: ftp://10.0.1.84/ND45/

Name	Size	Data Modified
2019-01-04 08_21_26.ND45Arch	35 KB	2019-01-04 08:55:00
2019-01-04 08_31_30.ND45Arch	35 KB	2019-01-04 09:01:00
2019-01-04 08_35_42.ND45Arch	35 KB	2019-01-04 09:07:00
2019-01-04 08_44_37.ND45Arch	35 KB	2019-01-04 09:13:00
alarm.log.csv	2 KB	2019-01-04 09:21:00
audit.log.csv	2 KB	2019-01-04 09:22:00



Measure



Control



Record



Analyze

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