Oracle

Portable Power Analyzer



- 3-Ø Model ORACLE
- A rugged full-featured instrument measuring all essential power quality data including Harmonics & Demands.
- Measures Voltage, Current, Power, Energy, Events, THD, Individual Harmonics, Frequency & Power Factor.
- Real-Time, display of odd Harmonic Content up to 9th in ORACLE.
- Data retrieval through USB port.

Applications:

- Energy audits and forecasting
- Load balancing
- Power factor surveys
- Power quality investigations
- Billing verification
- Harmonic surveys & analysis for filter design
- Load profiling
- Substation monitoring

Portable Power Analyzers -Oracle

The new Oracle is the latest innovations of the previous successful Portable Power Quality Analyzer platform. It incorporates newly enhanced key features including a faster ARM Processor to support continually evolving capabilities, a complete 8 MB of nonvolatile internal memory and auxiliary power input capabilities.

Power Quality data can be downloaded from the instrument to PC or Laptop.

The standard software utility has been enhanced to fully support the new functionality and is included at no cost with every Oracle sold.

The Oracle record power quality and power flow information simultaneously. The recorded information can be viewed via the built-in graphics display & downloaded to a computer using the USB interface.

Trinity offers a comprehensive line of flexible voltage probes and clamp-on current probes for use with Oracle

Comprehensive Measurement:

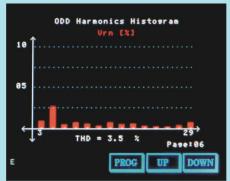
- All readingsh are True RMS measurements.
- Fast, real-time cycle by cycle measurements, at 80 samples/cycle
- Four quadrant readings (Power Factor).
- Min/Max. Values.
- KVA and KW Demands.

Data Logging:

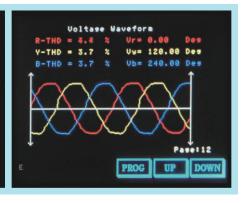
- ON board 8 MB of memory in Oracle.
- Log all Min./Max. Values.
- Log all electrical parameters, real-time and integrated (energies and demands) and harmonics to get complete Energy system snap-shot.
- Event Logging: Four events ca be programmed by the user for parameter, high-low, time delay and value (Oracle).

Display:

320X240 color TFT in ORACLE. Graphical display makes it possible to present harmonic data in histogram waveforms of all voltages and currents.







Technical Specifications :

Voltage (Volts L-N)		
Voltage (Volts L-N) PT Ratio Freely Programmable up to 220KV Range of Reading 0.0 to 220KV		
(Volts L-N) Range of Reading 0.0 to 220KV		
Range of Reading 0.0 to 220KV	1	
Accuracy Direct Voltage Input Voltage (Volts I-I) Accuracy Direct Voltage Input PT Ratio Freely Programmable up to 220KV	1	
Direct Voltage Input Voltage (Volts I-I) Direct Voltage Input O to 510V AC Freely Programmable up to 220KV	/	
Voltage (Volts I - I) PT Ratio Freely Programmable up to 220KV	<i>'</i>	
L VOIG L L		
Range of Reading 0.0 to 220KV		
Accuracy 1.0% of Reading		
Secondary Current Input 2mA, 300mA, 1000mA		
Current CT Ratio Freely Programmable up to 9999A		
(Amps Ir, Iy, Ib) Range of Reading 0.0 to 9999A		
Accuracy 0.25% of Reading		
Neutral Current Accuracy 3% of Reading		
Line Frequency Range of Reading 45 to 55 Hz		
Accuracy 0.3% of Reading		
Active Power (P) Accuracy (Between 0.5 Lag to 0.8 Lead) 1.0% of Reading		
Reactive Power (Q) Reactive Power (Q) Accuracy (Between 0.5 Lag to 0.8 Lead) 1.5% of Reading	1.5% of Reading	
Apparent Power (S) Accuracy 1.0% of Reading	1.0% of Reading	
Power Factor Accuracy 1% of Reading (IPFI>0.5)		
Range of Reading 0.05 to 1.00 Lag/Lead		
Total Active Range of Reading 0 to 314780.00 MWh Energy (KWh) Accuracy 1.0S as per IS13779		
The department of the second o		
Accuracy/Retween 0.5 Lag to		
0.8 Lead)		
Total Apparent Range of Reading 0 to 314780.00 MWh Energy (KVAh) Accuracy 1.0% of Reading		
Active Power (KW) Demand		
Sliding & Fixed Selectable	Sliding & Fixed Selectable	
Apparent Power (KVA) Demand		
Predictive Demand Fixed Window	Fixed Window	
Harmonics for Voltages 3rd to 29th Odd Only		
Harmonics for Currents 3rd to 29th Odd Only THD for each Voltage		
THD for each Voltage		
THD for each Current ✓	✓	
Misc. Phase angles ✓	✓	
Run time	✓	

Input Specifications:

Supply: Three Phases and Neutral of a 3P4W system/ Three phases of a 3P3W system.

	ORACLE	
Voltage:		
Direct Voltage Input	Up to 510V L-L and 300V L-N	
PT Ratio	Freely Programmable up to 220KV Site selectable.	
Range of Reading	1-220KV	
Burden	0.5VA	
Current:		
Secondary Current Input	5A or 1A	
Range of Reading	0 – 9999A	
Burden	< 1.0VA	
Overload	5A CT = 6A RMS Continuous 1A CT = 5A RMS Continuous	

Power Supply:

Self Power. Unit has in-built 3 phase supply with an operating range of 60 VAC - 480 VAC, 50-60 Hz. Mains supply (80-500 VAC) for connection at lab/office while downloadable data.

Data Logging:

Product Name	Records	Logging Interval	Total Duration	
			Min.	Max.
Oracle	30395	1 Sec. to 16.65 Min(999 Sec.)	8.4 Hours	351.4

Display : 320X240 Color TFT

Dimensions : 225(W) X 198(H) X 80 (D) mm.

Operating Temp. : 10°C to 50°C.

Clamp-On CT Specification:

Current Transformer Ratios (Arms): 600A/300mA, 5A/2mA (single range); 1A, 5A, 300mA (triple range)

For CTR-600A/300mA

Weight: 0.36 kg

Dimension : overall 183(L) X 96(W) X 60 (D) mm

Conductor size : 96 mm

Burden Resistance : ≤ 2 ohms.

Accuracy : Class 0.5

Frequency Range : 50 to 400 Hz.

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