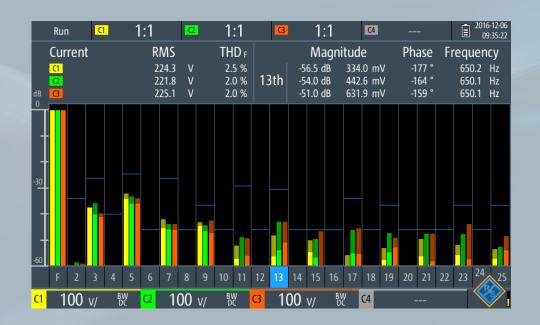
RTH-K34 – Harmonic Analysis Option



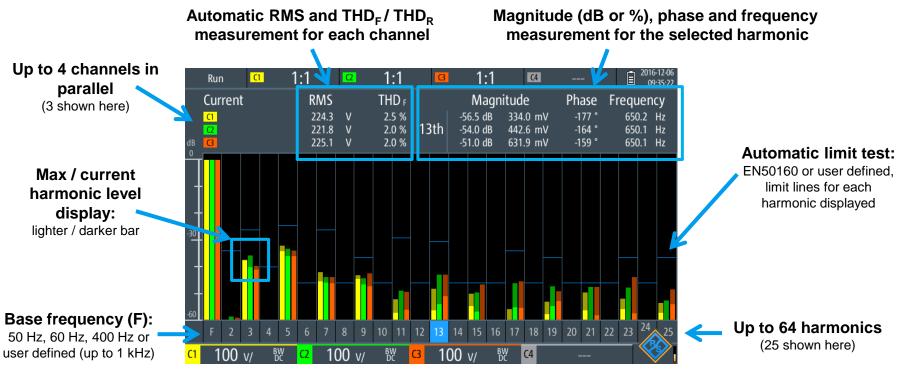


电话:010-62176775

网址: www.hyxyyq.com

New Application Option: RTH-K34

Harmonic Analysis – At a Glance



北京海洋兴业科技股份有限公司

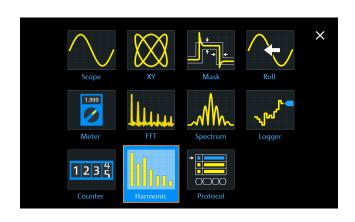
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New Application Option: RTH-K34 Easy

to use

A) Enter harmonics mode button



B) Easily configure in menu



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Voltage characteristics of electricity supplied by public distribution systems. Overview on EN50160 standard

■ Purpose of EN50160

 Defines main characteristics (limits or values) of voltage at the user's supply terminals in public low and medium voltage electrical distribution systems under normal operating conditions

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Defines

Frequency, magnitude, waveform and symmetry of the three phase voltages

Voltage harmonics is one aspect of EN50160

- Caused by user's non-linear loads:
 Harmonic currents cause voltage harmonics
- Important because some harmonics cause non-zero currents in the neutral conductor and can lead to overheating.

Odd harmonics				Even harmonics	
Not multiples of 3		Multiples of 3		- Everi narmonics	
Order h	Relative voltage	Order h	Relative voltage	Order h	Relative voltage
5 7	6 % 5 %	3 9	5 % 1,5 %	2 4	2 % 1 %
11 13	3,5 % 3 %	15 21	0,5 % 0,5 %	624	0,5 %
17	2 %				
19 23 25	1,5 % 1,5 %				

NOTE: No values are given for harmonics of order higher than 25, as they are usually small, but largely