Enhanced functions

As seen in the table, up to three options can be added to the base unit. They can be ordered directly from the factory (R&S®HOC15x) or at later time (R&S®HVC15x) as a voucher.

R&S®HOC151/R&S®HVC151 advanced analysis option

The advanced analysis option complements the base unit's measurands by also displaying peak values for voltage, current and power. These are acquired seamlessly at the

full sampling rate of 500 ksample/s. The following additional graphic functions are available:

Inrush function

The inrush function makes it possible to graphically display switch-on behavior (see picture on next page). Triggering can be either manual or edge-based (pos./neg.) when user-defined voltage or current thresholds are reached. 8192 samples are acquired at all times with a logging period of 16 ms to 67 s.

Function	Description	Base unit	Opt./voucher	Opt./voucher	Opt./voucher
		R&S®HMC8015		R&S®HOC152/	R&S®HOC153/
			R&S®HVC151	R&S®HVC152	R&S®HVC153
Р	Active power (W)	•			
S	Apparent power (VA)	•			
Q	Reactive power (var)	•			
PF	Lambda power factor (λ)	•			
PHI	Phase shift (φ)	•			
FU	Voltage frequency value (Hz)	•			
FI	Current frequency value (Hz)	•			
FPLL	Acquisition frequency (Hz)	•			
URMS	RMS voltage (U RMS)	•			
UAVG	Average voltage (U AVG)	•			
IRMS	RMS current (I RMS)	•			
IAVG	Average current (I AVG)	•			
UTHD	Total harmonic distortion U	•			
ITHD	Total harmonic distortion I	•			
WHM, WHP, WH, AHM, AHP, AH	Energy counter (integrator values)	•			
Logging	Measured value logging (CSV)	•			
USB, Ethernet (GPIB optional - R&S®HMC8015-G)	Remote control interfaces	•			
UPPeak	Maximum voltage (U PEAK)		•		
UMPeak	Minimum voltage (U PEAK)		•		
IPPeak	Maximum current (I PEAK)		•		
IMPeak	Minimum current (I PEAK)		•		
PPPeak	Maximum power (P PEAK)		•		
PMPeak	Minimum power (P PEAK)		•		
Harmonics	Bargraph of up to 50 harmonics		•		
Waveform	Waveform display (displays one period of voltage, current or power)		•		
Trend chart	Current and voltage displayed as a waveform		•		
Inrush	Triggered display of waveform (single shot)		•		
Sensor input	Input for current probe/external shunt			•	
DIN/AIN	Digital/analog inputs and outputs (BNC)			•	
Limit/PASS-FAIL	Limit display			•	
IEC62301	Standby standard				•
EN50564	Extended standby standard				•
EN61000-3-2	Harmonic current for EMC, CE approval				•