

TECHNICAL CHARACTERISTICS

	ALPTEC 50	ALPTEC 60	ALPTEC 200
MEASUREMENTS MADE			
● Phase and phase to phase voltage :	■	■	■
* instantaneous	■	■	■
* mean		■	■
* minimum	■	■	■
* maximum	■	■	■
● Current per phase :	■	■	■
* instantaneous	■	■	■
* mean		■	■
* minimum	■	■	■
* maximum	■	■	■
* averaged maximum		■	■
● Frequency	■	■	■
● Power factor	■	■	■
● Cos φ		■	■
● Active power :	■	■	■
* instantaneous	■	■	■
* per phase	■	■	■
* total and bi-directional		■	■
* mean		■	■
* minimum	■	■	■
* maximum	■	■	■
* averaged maximum		■	■
● Reactive power :	■	■	■
* instantaneous	■	■	■
* per phase	■	■	■
* total and bi-directional		■	■
* mean		■	■
* minimum	■	■	■
* maximum	■	■	■
● Apparent power :	■	■	■
* instantaneous	■	■	■
* per phase	■	■	■
* total and bi-directional		■	■
* mean		■	■
* minimum	■	■	■
* maximum	■	■	■
● Active energy :		■	■
* total and bi-directional		■	■
● Reactive energy :		■	■
* total and bi-directional		■	■
● Harmonics (%) → 21st order :		■	■
* voltage		■	■
* current		■	■
* total distortion		■	■
COMMUNICATION			
● RS 485 (MODBUS – RTU protocol)			■
● 1 programmable electromechanical relay			■
● 1 programmable solid state relay			■



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ELECTRICAL CHARACTERISTICS	
● Voltage input :	
* direct without voltage transformer	10 to 830 VAC
* with voltage transformer	primary 69000 V max.
* consumption per phase	0,7 VA
● Current input :	
* direct without current transformer	0.02 to 5 A (+20% permitted)
* with current transformer	primary 10000 A max.
* consumption per phase	0.3 VA
● Frequency input	45 to 65 Hz
● Measurements (power, energy, etc.)	4 quadrants (ALPTEC 50 : 2 quadrants)
● Types of measurement	True RMS
● Connection mode	Single, two or three phase, with or without neutral
● Measurement precision :	
* voltage, current, power	± 0.5%
* energy	± 1%
● Display refresh time	every 300 milliseconds (ALPTEC 50 : 1s.)
● Characteristics of electromechanical output relay	
* contact current / voltage	5 A / 250 VAC
● Characteristics of solid state output relay	
* type	bi-directional
* current : voltage	55 mA / 60 VAC and DC
● Characteristics of RS 485 serial link	
* type	Isolated
* Programmable band rate	2400 to 19200 bps
● Display immunity against power line disturbance	20 milliseconds
● Backup of parameters and acquisitions	permanent backup
● Auxiliary power supply	208 to 240 VAC / 50-60 Hz / 10 VA
ADJUSTABLE CHARACTERISTICS	
● Integration time for energy values and averaged maximum	1 to 60 minutes
● Current transformer ratio	1 to 2000
● Voltage transformer ratio	1 to 1000
● Network type	Single, two or three phase
USAGE CHARACTERISTICS	
● Operating temperature	-20 to +60°C
● Storage temperature	-30 to +80°C
● Humidity	< 90%
● Protection index	IP 41
MECHANICAL CHARACTERISTICS	
● Dimensions (L x W x D)	
* flush fitting	96 x 96 x 91 mm
* DIN rail	105 x 90 x 60 mm
● Weight	0.4 kg
STANDARDS	
	IEC / EN 50081-1 and 50082-2 IEC / EN 61040-1 IEC / EN 60068-2-6-27 IEC / EN 61000-4-11

