

APView series

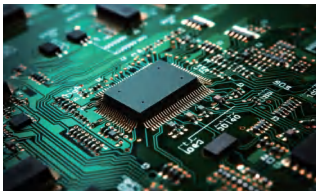
Power Quality Analyzer

Overview

Power Quality Analyzer utilizes a high-performance multi-core platform and an embedded operating system. It integrates functions such as harmonic analysis, waveform sampling, voltage dip/swell/interruption detection, flicker monitoring, voltage unbalance monitoring, event recording, and measurement control.The APView complies with standards such as IEC 61000-4-30 Ed.3.1CclassA,IEC 62053 Class 0.2S. It is suitable for 110kV and below substation and is widely used in industries such as semiconductor, petrochemical, steel, hospitals, data centers, and transportation buildings, as well as in renewable energy like photovoltaic, energy storage, and wind power.

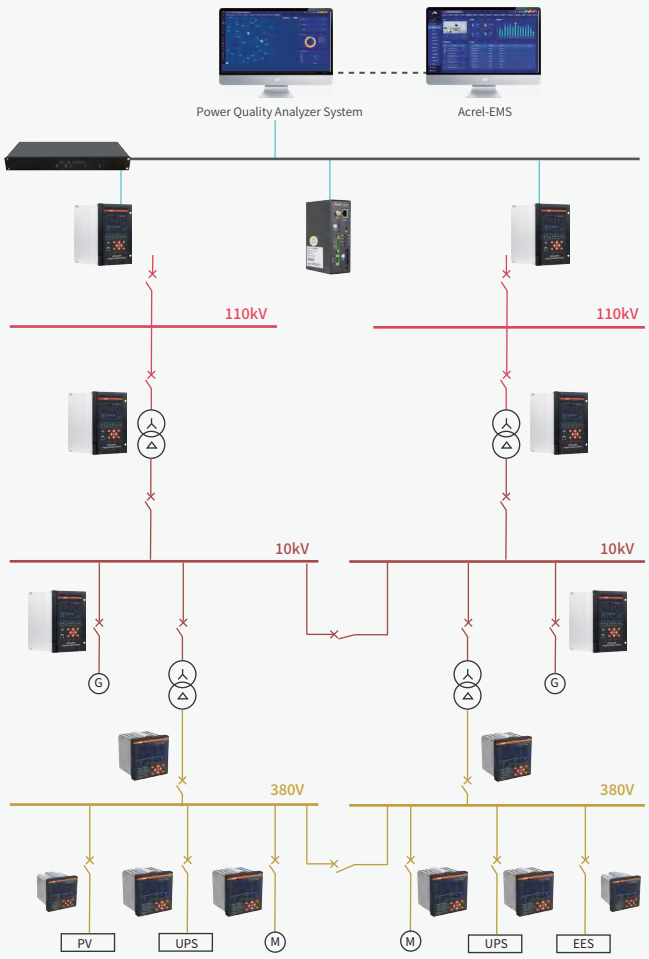








Application



Features

User-machine interface (UMI)

- Color LCD display
- Password protected setup via front panel, on-board Web Server
- Various alarm LEDs, Programmable alarm output matrix

High-speed Measurements

- 3-Phase Voltage, Current, Power and Power Factor
- 1024 samples per cycle
- IEC 60253-22 Class 0.2S

Power Quality

- IEC 61000-4-30 Ed3.1 Class A Compliant
- Steady, temporary and transient power quality monitoring

Disturbance Direction Indicator

- Determine if a Dip/Swell/Interruption Event is located upstream or downstream
- SEMI F47 / ITIC display on the Front Panel

Logs and Reports

- More than 5000 SOE Records, 2000Waveform Records, PQDIF File Format
- Waveform Records in COMTRADE and PQDIF File Format
- Daily Reports for power quality statistics
- Compliance evaluation and statistical evaluation for power quality
- 32G memory and reports can be stored for up to 1 year

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Technical Features

Type		APView500	APView400	APView350
Display		5 inches, color	5 inches, color	4.3 inches, color
Power supply		AC/DC88V~264V, DC48V	AC/DC88V~264V, DC24/48V	AC/DC88V~264V, DC24/48V
Sampling frequency 50/60 Hz		51.2kHz	51.2kHz	51.2kHz
AC input		8*U+8*I	4*U+4*I	4*U+4*I
Voltage /Current input		0~456V AC/ 0~6A AC	0~680V AC/ 0~6A AC	0~680V AC/ 0~6A AC
Digital inputs/outputs		22DI+16DO	5DI+5DO	5DI+3DO
Accuracy	Voltage [1]	±0.1% U_N	±0.1%U_N	±0.1%U_N
	Current [2]	0~0.1I_N: ±0.5% >0.1I_N : ±0.1%	0.01I_N~0.05I_N: ±1% >0.05I_N : ±0.5%	0.01I_N~0.05I_N: ±1% >0.05I_N: ±0.5%
	Frequency	±0.001Hz	±0.001Hz	±0.001Hz
	Power	±0.2%	±0.2%	±0.2%
Steady	Voltage/Frequency deviation	■	■	■
	Current/Voltage Unbalance	■	■	■
	Voltage fluctuation	■	■	■
	Flicker	■	■	■
	Harmonic	2~63rd	2~63rd	2~63rd
	Interharmonic	0.5th~62.5th	0.5th~62.5th	0.5th~62.5th
	High-frequency harmonic	2.5k~8.9kHz	2.5k~8.9kHz	2.5k~8.9kHz
	DC component	—	■	■
	Rapid voltage change	■	■	■
	Inrush current	■	■	■
Temporary	Voltage dip	■	■	■
	Voltage interruption	■	■	■
	Voltage swell	■	■	■
Transient Voltage/ Current		20μs	20μs	○
SEMI F47/ITIC		■	■	■
FTP Server		■	■	■
Rear Ports	RS-485 ports	3	2	2
	Ethernet ports	4	2	2
	USB	■	■	■
IRIG-B/SNTP Timing		■	■	■
Protocol	Modbus RTU/Modbus TCP	■	■	■
	IEC 61850	○	○	○

Note: ■ means with this function, ○ means the function is optional, —means without this function.

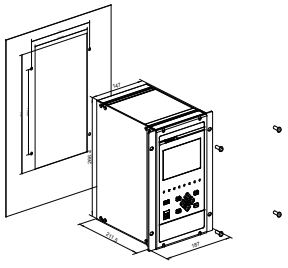
[1] Measurement uncertainty calculation: $\frac{U-U_{inN}}{U_N}$ X100% ,

U :Measured Voltage ; U_{inN} :Given Voltage ; U_N :Nominal Voltage

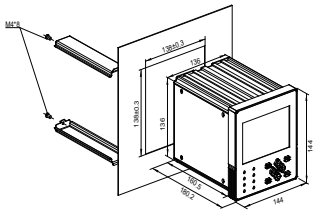
[2] Measurement uncertainty calculation: $\frac{I-I_{inN}}{I_{inN}}$ X100% ,

I :Measured Current ; I_{inN} :Given Current ;

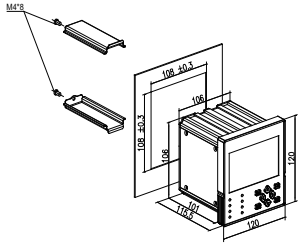
Installation Dimensions



APView500



APView400



APView350

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