

Brand	Energy CcM	Schneider	Circutor	ABB	Siemens	Voltaware	
Device family	CcM	PowerTag	Wibeec	CMS	7KT PAC1200	Voltaware	
Products	3P+N	✓	✓	✓	✓	✓	
	3P	✓	✓	✗	✗	✗	
	1P+N	✓	✓	✓	✗	✓	
	1P	✓	✓	✗	✓	✗	
	Master	Optional	Mandatory	✗	Mandatory	Mandatory	✗
Measurements	Voltage	✓	✓	✓	✓	✓	
	Current	✓	✓	✓	✓	✓	
	Active Power	✓	✓	✓	✓	✓	
	Reactive Power	✓	✗	✓	✓	✓ ⁱ	
	Active Energy	✓	✓	✓	✓	✓	
	Reactive Energy	✓	✗	✓	✓	✓ ⁱⁱ	
	Consumed Energy	✓	✓	✓	✓	✓	
	Generated Energy	✓	✗	✗	✗	✗	
	Power Factor	✓	✓	✓	✓	✓	
	Harmonics Distortion	✓	✗	✗	✓	✓	
	Class 1	✓	✓	✗	✓	✓	UNK
	Calibration certificate	✓	UNK	UNK	UNK	UNK	UNK
Communication	WiFi	✓	✗	✓	✓ ⁱⁱⁱ	✗	✓
	RS-485	✓	✓ ^{iv}	✗	✓ ^v	✗	✗
	Dual WiFi + RS-485	✓	✗	✗	✗	✗	✗
	Ethernet	✓ ^{vi}	✓ ^{vii}	✗	✓ ^{viii}	✓ ^{ix}	✗
	Devices linkage	✓	✓	✗	✓	✓	✗
	Data storage memory (w/o Internet)	✓	✗	✗	✗	✗	✗
	Cloud mode	✓	✗	✓	✗	✗	✓
	FTP mode	✓	✗	✗	✗	✗	✗
	Gateway mode	✓	✓	✓	✓	✓	✗
	Android app	✓	✗	✓	✗	✗	✓

	Brand	Energy CcM	Schneider	Circuitor	ABB	Siemens	Voltaware
Additional features	No extra space needed	✓	✗	✓	✗	✗	✓
	Up to 63 A _{rms} w/o external CT	✓	✓	✓	✗	✗	✗
	Up to 10.000 A _{rms} with external CT	✓	✗	✗	✗	✗	✗
	Uni/Bi-directional mode	✓	✗	✗	✗	✗	✗
	Voltage cut-off detection	✓	✓	✗	✗	✗	✓
	External temperature probe measurement	✓	✗	✗	✗	✗	✗
	Digital inputs/outputs control	✓	✗	✗	✗	✗	✗
	Solar inverters control (self-consumption)	✓	✗	✗	✗	✗	✗
Certification	CE marking	✓	✓	✓	✓	✓	✓
	EMC (IEC 61326-1)	✓	✓	✓	✓	✓	✓
	Electrical Safety (IEC 61010-1 + IEC 61010-2-030)	✓	✓	✓	✓	✓	✓
	Overvoltage Category III	✓	✓	✗ ^x	✗ ^{xi}	✓	UNK

- ⁱ Only using the 3-phase meter.
- ⁱⁱ Only using the 3-phase meter.
- ⁱⁱⁱ Using Control Unit CMS-770.
- ^{iv} Using Concentrator A9XMZA08.
- ^v Using Control Unit CMS-600 or CMS-700.
- ^{vi} Using CcMaster.
- ^{vii} Using Concentrator A9XMWA20 or A9XMZA08.
- ^{viii} Using Control Unit CMS-700 or CMS-770.
Using Data Manager 7KT1260.
Category II.
Category II.

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