













		Power Meter							
									
		PM9P/PM9C	PM500	PM700	PM700P	PM710	PM810	PM820	PM850
General selection criteria									
Installation		On DIN rail	Flush mount	Flush mount			Flush mount		
Use on LV distribution systems		■	■	■	■	■	■	■	■
Use on LV and HV distribution systems		-	■	■	■	■	■	■	■
Current / voltage accuracy		0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.1 %	0.1 %	0.1 %
Power / energy accuracy		2 %	1 %	1 %	1 %	1 %	1 %	0.5 %	0.5 %
Instantaneous rms values									
Current	■ Phases	■	■	■	■	■	■	■	■
	■ Neutral	■	■	■	■	■	■	■	■
	■ Extended measurement range	-	-	-	-	-	-	-	-
Voltage	Simple et composée	■	■	■	■	■	■	■	■
Frequency		■	■	■	■	■	■	■	■
Total power	■ Active	■	■	■	■	■	■	■	■
	■ Reactive	■	■	■	■	■	■	■	■
	■ Apparent	■	■	■	■	■	■	■	■
Power per phase	■ Active	■	■	■	■	■	■	■	■
	■ Reactive	■	■	■	■	■	■	■	■
	■ Apparent	-	■	■	■	■	■	■	■
Power factor	■ Total	■	■	■	■	■	■	■	■
	■ Per phase	-	■	-	-	-	■	■	■
Energy values									
Active energy		■	■	■	■	■	■	■	■
Reactive energy		■	■	■	■	■	■	■	■
Apparent energy		-	■	■	■	■	■	■	■
User-set accumulation mode		-	-	-	-	-	■	■	■
Demand values									
Current	Present and maximum values	-	■	■	■	■	■	■	■
Total active power	Present and maximum values	■	■	■	■	■	■	■	■
Total reactive power	Present and maximum values	-	■	■	■	■	■	■	■
Total apparent power	Present and maximum values	-	■	■	■	■	■	■	■
Total predicted demand	kW, kVAR, kVA	-	-	-	-	-	■	■	■
Synchronisation of calculation window		-	Option	-	-	-	■	■	■
User-set calculation mode		-	-	■	■	■	■	■	■
Power quality measurements									
Total harmonic distortion	■ Voltage	-	■	■	■	■	■	■	■
	■ Current	-	■	■	■	■	■	■	■
Individual harmonic content		-	-	-	-	-	■	■	
Waveform capture		-	-	-	-	-	-	■	
Detection of voltage sags and swells		-	-	-	-	-	-	-	
Programmable (logic and mathematical functions)		-	-	-	-	-	-	-	
Detection and capture of transients (< 1 µs)		-	-	-	-	-	-	-	
Flicker		-	-	-	-	-	-	-	
EN50160 compliance checking		-	-	-	-	-	-	-	
True rms measurement	Maximum harmonic number	15	31	15	15	15	63	63	63
Sampling rate	Points per cycle	-	-	32	32	32	128	128	128

(1) Measurement sensors included.

(2) Not available with Digipact communication card.

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Logging									
Min/max of instantaneous values		-	Option	■	■	■	■	■	■
Data logging		-	-	-	-	-	-	2	4
Event logging		-	-	-	-	-	-	■	■
Trend curves		-	-	-	-	-	-	-	■
Alarms		-	Option	-	-	-	■	■	■
Alarm notification via email		-	-	-	-	-	-	-	-
Sequence of Events Recording		-	-	-	-	-	-	-	-
Date and time stamping		-	-	-	-	-	■	■	■
GPS time synchronisation		-	-	-	-	-	-	-	-
Storage capacity		-	-	-	-	-	-	80 Ko	800 Ko
Display, sensors, input/outputs									
Front-panel display		■	■	■	■	■	■	■	■
Built-in current and voltage sensors		-	-	-	-	-	-	-	-
Pulse output		1 (PM9P)	Option	-	2	-	1	1	1
Digital or analogue inputs (max. number)		-	3	-	-	-	13	13	13
Digital or analogue outputs (max. number including pulse outputs)		1 (PM9P)	5	-	2	-	9	9	9
Direct voltage connections without external VT		450 V	480 V	480 V	480 V	480 V	600 V	600 V	600 V
Power supply									
AC/DC version	AC	230 V	110 to 400 V	110 to 415 V			110 to 415 V		
	DC	-	120 to 350 V	125 to 250 V			125 to 250 V		
DC version		24 to 48 V	24 to 48 V	-	-	-	-	-	-
Communication									
RS 485 port		■ (PM9C)	Option	-	-	■	■	■	■
Infra-red port		-	-	-	-	-	-	-	-
RS 232 port		-	-	-	-	-	-	-	-
Modbus (M), Digipact (D) protocol		M	M	-	-	M	M	M	M
Ethernet port (Modbus/TCP/IP protocol)		-	-	-	-	-	-	-	-
HTML Web-page server		-	-	-	-	-	-	-	-
Ethernet gateway for other products on an RS 485 link		-	-	-	-	-	-	-	-

(2) Not available with Digipact communication card.
 (3) Maximum only.
 (4) The total number of inputs and outputs may not exceed 25.
 (5) Self-powered.

Circuit Monitor



CM3250	CM3350	CM4000	CM4000XR	CM4000T
■	■	■	■	■
14	14	14	14	14
■	■	■	■	■
■	■	■	■	■
Option	Option	Option	Option	Option
■	■	■	■	■
■	■	■	■	■
Option	Option	Option	Option	Option
Up to 8 Mo	Up to 8 Mo	Up to 32 Mo	Up to 32 Mo	Up to 32 Mo
Option	Option	Option	Option	Option
-	-	-	-	-
1	1	1	1	1
4	4	16 (4)	16 (4)	16 (4)
5	5	17 (4)	17 (4)	17 (4)
600 V	600 V	600 V	600 V	600 V
100 to 275 V		100 to 275 V		
125 to 250 V		125 to 250 V		
-		-		
■	■	■	■	■
Option	Option	Option	Option	Option
-	-	■	■	■
M	M	M	M	M
Option	Option	Option	Option	Option
Option	Option	Option	Option	Option
Option	Option	Option	Option	Option

Micrologic control units for low-voltage circuit breakers



A	P	H
■ (3)	■ (2)	■ (2)
-	-	-
-	■ (2)	■ (2)
-	-	-
-	■	■
-	-	-
-	-	-
-	■	■
-	-	-
-	-	-
■	■	■
■	■	■
-	-	-
-	-	-
6	6	6
690 V	690 V	690 V
(5)	(5)	(5)
(5)	(5)	(5)
(5)	(5)	(5)
Option	Option	Option
-	-	-
-	-	-
M, D	M, D	M, D
-	-	-
-	-	-
-	-	-