

SIEMENS SENTRON Portfolio for Power Monitoring Instructions

Home » SIEMENS » SIEMENS SENTRON Portfolio for Power Monitoring Instructions



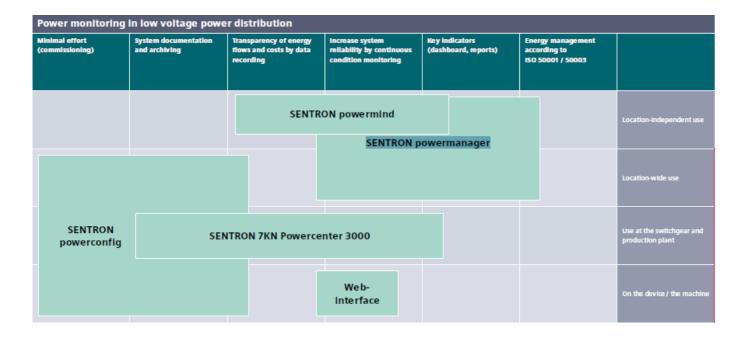
Contents

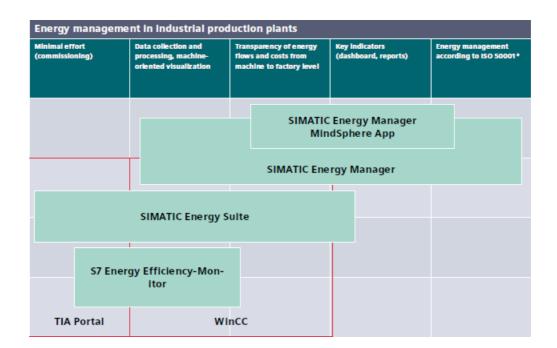
- 1 SENTRON Portfolio for Power Monitoring
 - 1.1 SENTRON & SIMATIC software solutions for power monitoring and energy management
- 2 Documents / Resources
 - 2.1 References
- **3 Related Posts**

SENTRON Portfolio for Power Monitoring

SENTRON & SIMATIC

software solutions for power monitoring and energy management







SENTRON powerconfig



SENTRON powermanager



SIMATIC Energy Manager



SIMATIC Energy Suite



SENTRON powerconfig

Mobile App



SENTRON 7KN Powercenter

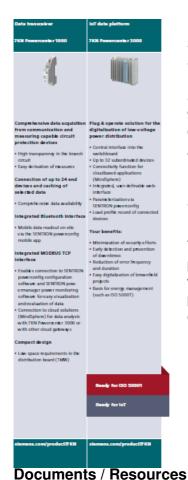


S7 Energy Efficiency-Monitor



SIMATIC MindSphere Apps

	Multichannel current	Multichannel current measuring system	Measuring device	Measuring device	Measuring device	Measuring device	Measuring device	Measuring device	Measuring device	Measuring device	Multifunctional m corder	Modular measuring device	Molded case circuit	Air Circuit Breaker	Air Circuit Breeker	AFDD and ministure circuit breaker
	7KT PAC1200	SEMO	7KT IAC1600	7 KM PAC1020	TKM PAC2200 (CLP)	7KM PAC5120	7KM PACS200T	7KM RACS220	7KM PAC4200	7KM PACS200	SICAM Q100/ Q200	Al Energy Meter	SWAZ ETU B-series	SWA	SWL	55V6 COM A PDO/MCB 55L6 COM MCB
٥	100							704	Biltan			90				1
SENTRON portfolio for power monitoring	The flexible solution for multichannel measuring in final circuits	The efficient solution for multichannel current measuring in the main distribution	The entry-level solution when it corners to energy measurement	The cost effective entry into power measurement and transparency		The cost-officetive solution for digital measurement	The compact solution for practice energy measurement	The specialist solution for precise energy measurement	The professional solution for communication and monitoring		The class A solution for power supply quality	The integrated energy measurement in automation	The specialist solution for protection and energy measurement	The incoming circuit becaler with communi- cation	The incoming circuit becaler with communi- cation	The communication- capable circuit protection devices
U, L P, f, h	URLES OF FIXE	x	x	x	х	x	x	х	x	х	x	x	x	x	x	x
Apparent active mactive energy cosp	x[x]x[-	x x x x	x x x -	- [x [x]-	x[x[x]-	x[x]x[x	x[x[x]-	x [x] x] x	x[x]x[x	x [x [x]x	x x x x	x x x x	x x x x	x x x x	x x x x	x[x[x]-
Maximum input voltage L-L/L-N	400V/230V	480 V (277 V	400 V/230V	400 V/230 V	400 V/ 230 V	690 V / 400 V	400 V/ 230 V	690V/400V	690 V / 400 V	690 V / 400 V galvenically seperated	690 V / 400 V gelvenicelly to pereited	480 V (277 V	690V (400 V (integrated)	1000 V/S77V (Integrated)	690V /400 V (Integrated)	- 230V
Current transformer connection direct measuring	x (x (up to 63 A)	x -	x x (up to 63A - 1-phase, up to 80A - 3-phase)	x/TA [x/S A	x x (up to 65 A)	x -	x -	x -	x -	x -	x -	x	Transformer (integrated)	Transformer (Integrated)	Transformer (integrated)	- [x
01/00	-	2/1	1/2	1/1	1/1	2/2	1/1	2/2 (10/6 with expan- sion module)	2/2 (10/6 with expansion module)	0/2	Q100: 2/2 Q200: 6/6	via ET200/ via 57-1200	EF8300 (optional)	optional	optional	-
Integrated communication	Modbus TCP	BACHET II; MSTF; SNMF; NTF; SMT; Modbus TCF; Modbus RTU	Modbus RTU, M-Bus, 50	Modbus RTU	Modbus TCP; Modbus RTU, M-Bus	Modbus RTU	Modbus TCP	Modbus TCP	Modbus TOP	Modbus TCP	Modbus TCR IEC 61850	PROFIBUS PROFIBUS	-	-	-	Winches
Communication via expansion module	-	-	-	-	-	-	-	Modbus RTU PROFIBET PROFIBES	Modbus RTU PROFINET PROFINUS	-	Q100: 1 x Modbus TCP + EC 61850 Q200: 2 x Modbus TCP + EC 61850	Modbus TCPvia CPU	Modbus TCP Modbus RTU PROFINET PROFIBUS	Modbus TCP PROFINET	Modbus TCP Modbus RTU Profinet Profibus	Modbus TCPvia 78N Powens nitr 1000
I(N), I(DIFF)	-	-	-	-	-	-		with expansion module	with expansion module	-	x	-	×	x		-
Analog input	-	-	-	-	-	-	-	with expansion module	with expansion module	-	-	vis ET200 / vis 57-1200	-	-	-	-
Load profile is cord	×	x	-	-	x (FAC2200 CLF)	-		-	x	x	×	in S7 CPU	x	×	x	-
Software interface a	Webinterfest, App (OS & Android), powerconfig powermanager	Webinterfars, powermenager	powerconfig. powermanager	powerconfig. powermanager	Webinisrisco, powercoring powermanager	powercening powermanager	Webinterfatt, powerconlig powermanager	Webinterfeet, SMATIC Energy Safe, SMATIC Energy Manager PRO, powertonflig, powertonflig,	Webinterfeet, SAMITC brengy Safe, SIMITIC brengy Manager FRO, powerconfig, powermanager	Webinterfest, powertrenitg, powertrenager	Webinterfeat / SICAM PQS/PQA, powermanager (online values)	SIMATIC? SIMATIC Energy Suite	SIMATIC theray Sults, SIMATIC theray Manager PRO, powerconfig. powerconfig.	SMATIC theory Sults, SMATIC theory Manager PRO, powerconfig, powermanager	SIMATIC Energy Suits, SIMATIC Energy Manager PRO, powerconfig. powermanager	via 71N Powercenter 1000 powercentilg, powermanager
THO Flicker, fault recorder, ENS0160 reporting	-1-	-1-	-1-	-1-	-1-	x -	x -	x -	x -	x x	x (x Transient seconding up to 1 µs (Q200)	x x	x -	x -	x	-1-
Harmonics	-	-	115.70	-	-	-	-	-	1	2 40	Q100: 2-50 kft Q200: 2-61 kft, 2-9 kft, 9-150 kft Harmonic Direction	2 40.	1 12.	231.	1 22	-
Accuracy class active energy mactive energy	31-	9,2 1	1 2	1 2	1 1	0,5 2	Q5 1	d2 3	Q25 2	Q55 2	92212	d2 1	25 2 (incl. transformer)	2 5 2 (Incl. transformer)	25 2 (Incl. transformer)	Class 1 ^{to}
Standard measuring devices	EC 62053-21	IEC 62052-11, IEC 62053-23, IEC 61010-1, UL 61010-1	EC 504/0-3, EC 62063-21, EC 62063-23	IEC 62053-21 ¹⁹ , IEC 62053-23 ¹⁹	RC 62053-22, RC 62053-23, RC 61557-12	IEC 62053-22, IEC 62053-23, IEC 61557-12, UL 61010-1	EC 62053-22, EC 62053-23, EC 61557-12	EC 62053-22, EC 62053-23, EC 61557-12, UL 61010-1	IEC 62053-22, IEC 62053-23, IEC 61557-12, UL 61010-1	EC 62053-22, EC 62053-23, EC 61557-12, EC 61000-4-30	EC 62586-1, EC 61000-4-3Q EC 61000-4-7, EC 61000-4-15	IEC 61557-12	IEC 61557-12	IEC 61557-12	IEC 61557-12	EC 61557-12, EC 62053-22, EC 62053-23 ^Q
MID certified	-	-	x	-	x ⁶	-	-	-	-	-	-	-	-	-	-	-
PMD class according to IEC50364-5-1	PMD 1	PMD 2	PMD 2	PMD1	PMD 2	PMD 3	PMD 3	PMD 3	PMD 3	PMD 3	PMD 3	PMD 3	PMD 3	PMD 1-3	PMD 3	PMD 2
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SENTRON Portfolio for Power Monitoring, SENTRON, Portfolio for Power Monitoring, Power Monitoring

References

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Manuals+,