

## Differences between the Siemens SENTRON PAC2xxx, PAC3xxx, and PAC4xxx

The differences in structure among the Siemens SENTRON PAC2xxx, PAC3xxx, and PAC4xxx power monitoring series are summarized below, focusing on their physical placement, measurement accuracy, communication capabilities, and compliance status.

### Some Sentron types compare

Unit Model	Base & Optional Communication Protocols	Network Configuration (Phase/Wire)	MID Certification Status	Accuracy Limits (Active Energy)	Harmonic Limits & Features
<b>PAC2200</b>	Modbus TCP or Modbus RTU (Fixed variant via hardware selection)	1-phase, 2-phase, or 3-phase (up to 3-wire/4-wire)	Yes (Dedicated MID variants available)	Class 1 (IEC 62053-21) / Class B (MID)	Total Harmonic Distortion (THD) only
<b>PAC3100</b>	Modbus RTU (Integrated); No optional slots	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No	Class 1 (IEC 62053-21)	No structural harmonics tracking
<b>PAC3120</b>	Modbus RTU (Integrated)	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	Yes (Dedicated MID variants available)	Class 1 (IEC 61557-12)	THD for Voltage and Current
<b>PAC3200</b>	Modbus TCP (Integrated). Optional: PROFINET, PROFIBUS, Modbus RTU	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No	Class 0.5S (IEC 62053-22)	Odd harmonics up to the 31st
<b>PAC3200T</b>	Modbus TCP (Integrated). Optional via Proxy: PROFINET	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No	Class 0.5% (IEC 61557-12)	THD and asymmetry limits
<b>PAC3220</b>	2x Modbus TCP (Dual RJ45 port). Optional: PROFINET, PROFIBUS	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	Yes (Dedicated MID variants available)	Class 0.5S (IEC 62053-22)	Odd harmonics up to the 31st
<b>PAC4200</b>	Modbus TCP (Integrated). Optional: PROFINET, PROFIBUS, Modbus RTU Gateway	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No	Class 0.2 (IEC 61557-12)	Comprehensive tracking up to the 64th
<b>PAC4220</b>	2x Modbus TCP (Dual port, 12 links). Optional: PROFINET, PROFIBUS	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No	Class 0.2 (IEC 61557-12)	Comprehensive tracking up to the 64th
<b>Sentron 9410</b>	Dual-port Modbus TCP, Modbus RTU, ION Protocol, IEC 61850, DNP3	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No (Meets ANSI C12.20 Revenue class)	Class 0.2S (Ultra-high precision)	Individual harmonics up to the 63rd + Waveform capture

<b>Unit Model</b>	<b>Base &amp; Optional Communication Protocols</b>	<b>Network Configuration (Phase/Wire)</b>	<b>MID Certification Status</b>	<b>Accuracy Limits (Active Energy)</b>	<b>Harmonic Limits &amp; Features</b>
<b>Sentron 9810</b>	Dual-port Modbus TCP, Modbus RTU, ION Protocol, IEC 61850, DNP3, DLMS	1-phase, 2-phase, or 3-phase (3-wire/4-wire)	No (Meets ANSI C12.20 Revenue class)	Class 0.1 (Laboratory grade standard)	Advanced grid analysis up to the 127th + Transient recording

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