



# The EkoPLC System

## TECHNICAL SPECIFICATIONS

Telkonet Gateway	Telkonet eXtender	Telkonet Couplers	Telkonet iBridge
 <p><b>LED Descriptions</b></p> <ul style="list-style-type: none"> <li>• WAN — Link/Activity</li> <li>• LAN — Link/Activity</li> <li>• PLC — Link/Activity</li> <li>• Power</li> </ul> <p><b>Power Line Carrier Interface</b></p> <ul style="list-style-type: none"> <li>• 75Ω F-type connector</li> <li>• Adaptive physical layer adjusts to varying channel conditions with speeds up to 14 Mbps</li> <li>• Network layers speeds of 7 Mbps (rate varies based on channel conditions)</li> <li>• Adaptive physical layer makes use of usable bandwidth</li> <li>• 56-bit DES security</li> <li>• Supports up to 1,023 Telkonet iBridges per Telkonet Gateway</li> </ul> <p><b>WAN Interface</b></p> <ul style="list-style-type: none"> <li>• One 10/100 base T port</li> <li>• Auto-MDIX (auto crossover) support</li> </ul> <p><b>LAN Interface</b></p> <ul style="list-style-type: none"> <li>• One 10 base T port</li> <li>• Auto-MDIX (auto crossover) support</li> </ul> <p><b>Ethernet Interface Cable</b></p> <ul style="list-style-type: none"> <li>• 7 feet, RJ-45, CAT 5 cable</li> </ul> <p><b>Operational Temperature</b></p> <ul style="list-style-type: none"> <li>• 0°C to 50°C non-condensing</li> </ul> <p><b>Storage Temperature</b></p> <ul style="list-style-type: none"> <li>• -20°C to 70°C</li> </ul> <p><b>Power/Input Rating</b></p> <ul style="list-style-type: none"> <li>• 100–240 VAC, 0.25 amps, 50/60 Hz</li> </ul> <p><b>Regulatory Compliance</b></p> <ul style="list-style-type: none"> <li>• TUV Rheinland Certified: UL/ANSI 60950 Listed, IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Compiles with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul> <p><b>Physical Characteristics</b></p> <ul style="list-style-type: none"> <li>• Length: 6.2 inches, 157mm</li> <li>• Width: 5.6 inches, 142mm</li> <li>• Height: 1.1 inches, 28mm</li> </ul>	 <p><b>LED Descriptions</b></p> <ul style="list-style-type: none"> <li>• ETH — Ethernet Link/Activity</li> <li>• PLC — Link/Activity</li> <li>• Power</li> </ul> <p><b>Power Line Carrier Interface</b></p> <ul style="list-style-type: none"> <li>• 75Ω F-type connector</li> <li>• Adaptive physical layer adjusts to varying channel conditions with speeds up to 14 Mbps</li> <li>• Network layers speeds of 7 Mbps (rate varies based on channel conditions)</li> <li>• Adaptive physical layer makes use of usable bandwidth</li> <li>• 56-bit DES security</li> <li>• Supports up to 63 Telkonet eXtenders per Telkonet Gateway</li> </ul> <p><b>Ethernet Interface</b></p> <ul style="list-style-type: none"> <li>• One 10 base T port</li> <li>• Auto-MDIX (auto crossover) support</li> </ul> <p><b>Ethernet Interface Cable</b></p> <ul style="list-style-type: none"> <li>• 7 feet, RJ-45, CAT 5 cable</li> </ul> <p><b>Operational Temperature</b></p> <ul style="list-style-type: none"> <li>• 0°C to 50°C non-condensing</li> </ul> <p><b>Storage Temperature</b></p> <ul style="list-style-type: none"> <li>• -20°C to 70°C</li> </ul> <p><b>Power/Input Rating</b></p> <ul style="list-style-type: none"> <li>• 100–240 VAC, 0.25 amps, 50/60 Hz</li> </ul> <p><b>Regulatory Compliance</b></p> <ul style="list-style-type: none"> <li>• TUV Rheinland Certified: UL/ANSI 60950 Listed, IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Compiles with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul> <p><b>Physical Characteristics</b></p> <ul style="list-style-type: none"> <li>• Length: 5.8 inches, 147mm</li> <li>• Width: 4.8 inches, 122mm</li> <li>• Height: 1.1 inches, 28mm</li> </ul>	 <p><b>Telkonet Coupler MVC100</b></p> <p><b>Power Terminals</b></p> <ul style="list-style-type: none"> <li>• Four terminals: one for each phase (three total) and neutral</li> </ul> <p><b>Phoenix Terminal Block</b></p> <ul style="list-style-type: none"> <li>• 2, MKDS5HV/2-9.52</li> <li>• Torque Spec - 4.4 in/lb or 0.5 Nm</li> <li>• Four 14 AWG wires: phase A, phase B, phase C and neutral</li> <li>• Supports connection to a single, split or 3-phase Wye System</li> </ul> <p><b>Power/Input Rating</b></p> <ul style="list-style-type: none"> <li>• 100-480 VAC, 0.1 amps, 50/60 Hz, AC-3AC, Wye</li> </ul> <p><b>Telkonet Coupler DPC100</b></p> <p><b>Power Terminals</b></p> <ul style="list-style-type: none"> <li>• Three terminals: one for each phase</li> </ul> <p><b>Phoenix Terminal Block</b></p> <ul style="list-style-type: none"> <li>• MKDS5HV/3-9.52</li> <li>• Torque Spec - 4.4 in/lb or 0.5 Nm</li> <li>• Three 14 AWG wires: phase A, phase B and phase C</li> <li>• Supports connection to a Delta Phase System</li> </ul> <p><b>Power/Input Rating</b></p> <ul style="list-style-type: none"> <li>• 100-480 VAC, 0.1 amps, 50/60 Hz, AC-3AC, Delta</li> </ul> <p><b>MVC100 and DPC100</b></p> <p><b>Power Line Carrier Interface</b></p> <ul style="list-style-type: none"> <li>• 75Ω F-type connector</li> </ul> <p><b>Operational Temperature</b></p> <ul style="list-style-type: none"> <li>• 0°C to 50°C non-condensing</li> </ul> <p><b>Storage Temperature</b></p> <ul style="list-style-type: none"> <li>• -20°C to 70°C</li> </ul> <p><b>Regulatory Compliance</b></p> <ul style="list-style-type: none"> <li>• TUV Rheinland Certified: UL/ANSI 60950 Listed, IEC 60950-1</li> </ul> <p><b>Physical Characteristics</b></p> <ul style="list-style-type: none"> <li>• Length: 5.6 inches, 142mm</li> <li>• Width: 5.8 inches, 147mm</li> <li>• Height: 2.3 inches, 58mm</li> </ul>	 <p><b>LED Descriptions</b></p> <ul style="list-style-type: none"> <li>• ETH — Ethernet Link/Activity</li> <li>• PLC — Link/Activity</li> <li>• Power</li> </ul> <p><b>Power Line Carrier Interface</b></p> <ul style="list-style-type: none"> <li>• IEC 320 AC line cord</li> <li>• Adaptive physical layer adjusts to varying channel conditions with speeds up to 14 Mbps</li> <li>• Network layers speeds of 7 Mbps (rate varies based on channel conditions)</li> <li>• Adaptive physical layer makes use of usable bandwidth</li> <li>• 56-bit DES security</li> </ul> <p><b>Ethernet Interface</b></p> <ul style="list-style-type: none"> <li>• One 10 base T port</li> <li>• Auto-MDIX (auto crossover) support</li> </ul> <p><b>Ethernet Interface Cable</b></p> <ul style="list-style-type: none"> <li>• 7 feet, RJ-45, CAT 5 cable</li> </ul> <p><b>Operational Temperature</b></p> <ul style="list-style-type: none"> <li>• 0°C to 50°C non-condensing</li> </ul> <p><b>Storage Temperature</b></p> <ul style="list-style-type: none"> <li>• -20°C to 70°C</li> </ul> <p><b>Power/Input Rating</b></p> <ul style="list-style-type: none"> <li>• 100–240 VAC, 0.25 amps, 50/60 Hz</li> </ul> <p><b>Regulatory Compliance</b></p> <ul style="list-style-type: none"> <li>• TUV Rheinland Certified: UL/ANSI 60950 Listed, IEC 60950-1</li> <li>• FCC Part 15</li> <li>• Compiles with IC: ICES-0006; en conformité avec IC: NMB-006</li> </ul> <p><b>Physical Characteristics</b></p> <ul style="list-style-type: none"> <li>• Length: 5.8 inches, 147mm</li> <li>• Width: 4.3 inches, 109mm</li> <li>• Height: 1.1 inches, 28mm</li> </ul>

**Ordering and Product Warranty** One-year standard warranty. Extended warranty available.  
**Customer Service** 24/7 customer service/technical assistance is available.



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