

Weidmüller

V-PROTEC® Power

VPU AC II TERMINAL PLUG – Surge Protection Device

Pluggable surge protection device for SNAP IN terminal blocks

The VPU AC II TERMINAL PLUG is the first pluggable Type II surge protection device for SNAP IN terminal blocks. Mounted directly on the power feed-in terminal blocks, it saves space and reduces wiring effort, shortens installation time and prevents typical wiring errors. The practical 0 m connection cable supports standards-compliant installation in accordance with EN 60364-4-443.



SNAP IN
Invented by Weidmüller.

Fast wiring
Weidmüller's SNAP IN connection technology enables quick, secure and tool-free installation. Furthermore, the modules can also be used in fully automated wiring processes.

Standard-compliant
By plugging the surge protection device directly into the terminal blocks, the '0.5 m connection rule' required by EN 60364-4-443 / EN 60364-5-53 is complied with.

Compact design
The pluggable surge protection can be retrofitted in sub-distributions for space-saving installation. If the connection terminals are of a different type, a suitable terminal block set is available.

VPU AC II TERMINAL PLUG
Areas of application



Building services

In modern buildings, main, sub-distribution, floor and room distribution systems are interconnected via extensively branched cable routes. At the same time, the number of sensitive electrical and electronic loads is constantly increasing. As a result, overvoltages can affect not only individual devices but also central functions of building automation, communications and security systems.

- Direct plugging reduces the amount of wiring
- Terminal integration supports short, guided connection routes
- Quick assembly speeds up the creation of recurring building layouts
- Type II+III protection also protects sensitive end devices

HVAC (Heating, Ventilation and Air Conditioning)

HVAC systems consist of central control units and decentralised components such as fans, chillers or heat exchangers. Parts of the system are often located outside the building or in exposed areas. Long supply connections and equipment spread across different locations (even if they are situated in a protected area in accordance with IEC 62305-4) increase the risk of atmospheric or grid-side surges being coupled into the system.

- Space-saving retrofit
- Short connection paths for improved protection
- Remote contact enables centralised status reporting
- Quick module replacement reduces maintenance time for decentralised components





Heat pumps

Heat pumps connect outdoor power components to the building's electrical installation. The control system, compressor and power electronics must work together reliably to ensure the supply of heat. Due to the outdoor installation, longer cable connections and switching operations in the supply network, surges can enter the system and cause operational interruptions.

- Space-saving combination of power feed-in and surge protection
- Tool-free pluggable connection reduces installation effort
- Pluggable SPDs reduce installation complexity
- Type II+III protection protects sensitive heat pump electronics



Water and wastewater treatment

Water and wastewater systems often including widely dispersed pumping stations, treatment plants, metering points and decentralised control systems. Reliable 24/7 operation is compromised by lightning strikes, long cable connections and switching operations, which can threaten automation and communication systems. SPDs protect the systems and help to prevent unplanned failures and costly service call-outs.

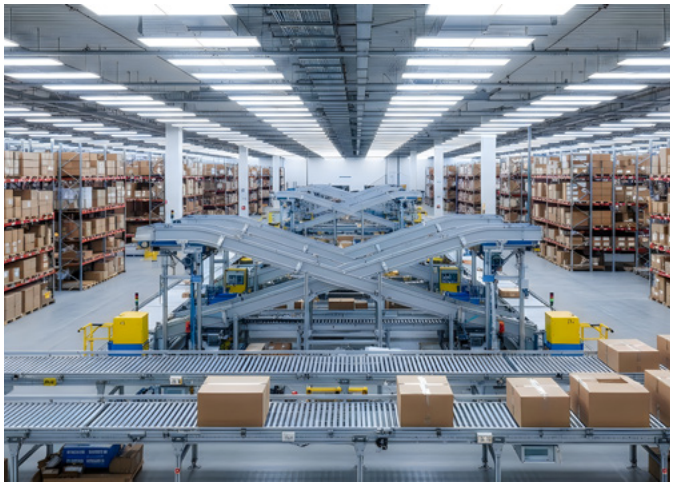
- 24/7 availability through less unplanned downtimes
- Reduces maintenance through remote monitoring
- Increases operational reliability through SPD retrofitting
- Quick module replacement without complex interventions or plant downtime

Cabinet building

In cabinet building, standardised processes, high packing density and consistent quality are key to cost-effective production. At the same time, demands for short production times, automated processing and flexible variant production are increasing. Nevertheless, compliance with the requirements of EN 60364-4-443 and IEC/DIN EN 62305 is essential, as these standards require the use and design of SPDs in many applications.

- Pre-assembled wiring for quick installation
- No additional space required for the SPD
- Faster initial installation and easier replacement
- Tool-free plug-in of the SPD reduces installation time and minimises wiring errors





Material handling technology

Material handling systems rely on the interaction of motors, frequency converters, sensors and control systems. High switching frequencies, as well as long power and signal cables, increase the electrical stress on the system. As the failure of even a single component can lead to system downtime, it is advisable to protect the control cabinets with a Type II SPD.

- Faster installation by plugging the SPD directly into the power feed-in terminals
- Compact integration enables high packing density
- Module replacement without rewiring and without downtime for individual material handling segments
- Short connection paths improve protection performance



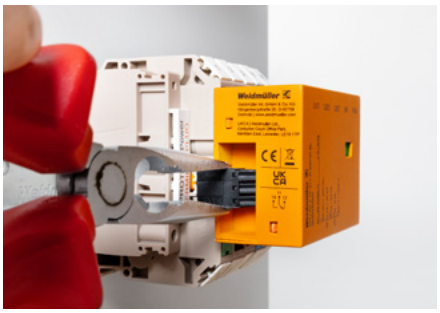
Pluggable surge protection

For testing or replacement, the module can be easily levered out with a screwdriver and plugged back in – ideal for sub-distributions in building, industrial and retrofit applications.



Status monitoring

The TERMINAL PLUG has a status window as a function indicator. In the event of an overload, the mechanical status monitoring system is enabled and displays a red status window.



Remote signalling contact

Modules with a remote contact enable remote monitoring of the module status. This allows service calls to be planned in a targeted manner.



Direct wiring

Thanks to the unique direct wiring and the directly pluggable SPD, there is no need for a separate module, including its wiring.

Technical data

Product description	Type	Version	Grid type	Rated Voltage Uc (AC) / Discharge current (I_{max})	Connection	Description	Order No.
VPU AC II TP 3+1 300/40 SL	II + III	4-pole, pluggable	TT, TN-C-S, TN-S	300 V / 40 kA	SNAP IN	Without remote contact	**3200030000**
VPU AC II TP 3+1 R 300/40 SL	II + III	4-pole, pluggable	TT, TN-C-S, TN-S	300 V / 40 kA	SNAP IN	With remote contact	**3200040000**
LST SL-SERIES SET	-				SNAP IN	Set with terminal blocks	**8000178196**

Product description	Content Set	Version	Quantity	Order No.
SL2C 10	Terminal block SNAP IN 10 mm²	Feed through terminal block	3	**3037500000**
SL2C 10 BL	Terminal block SNAP IN 10 mm² blue	Feed through terminal block	1	**3037510000**
SL2C 10 PE	PE terminal block SNAP IN 10 mm²	PE terminal block	1	**3037520000**
AEB 35 SC/1	End bracket		1	**1991920000**
SLEP 2C 10	End plate		1	**3037650000**

Visit our website for more information
www.weidmueller.com/terminal-plug

Visit our online catalogue
for more information

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