Lightning & Surge Protection

VARITECTOR PU AC US Series for Industrial Applications

High-performance surge protection devices maximize your system availability

Weidmüller

End-to-End Protection for Your Equipment

Secure your systems and building infrastructure

Future-proof protection

Electrical installations for power systems in plants and machinery require efficient protection against surge voltages. The most complete form of protection is to protect from your mains feed down through to the end user.

The VARITECTOR PU AC US series with its high-performance products provides advanced protection against surge voltages. Weidmuller also offers a wide portfolio of signal and data protection. The VPU AC SERIES is tested in an accredited external test laboratory according to IEC, EN, and UL standards and ready for international use.

UL 1449 5th Edition

Weidmuller offers the VPU AC US series, that is specialized in the American market and UL 1449 5th edition compliant.

How the UL Standard Impacts Surge Protection Devices

- UL 1449 standard specifies various tests that SPD OEMs must pass to claim compliance.
- Standard Surge Protection Devices (SPDs) must have UL 1449 certification to meet safety and performance standards.

Learn more about our surge protection for energy systems

SCCR 200 kA

Global compliance

Certifications according to international IEC/EN standards, as well as the latest UL 1449 Ed. 5 standard, guarantees appropriate use for every application.

High performance

The SCCR rating of 200kA in the VPU AC US series allows for safe operation in every cabinet.

Full status control

VPU AC series products have an optical status indicator. Pre-warning display versions enable uninterrupted protection because the remote signaling contact sends the pre-warning signal to external monitoring systems first.

Extended N/PE protection

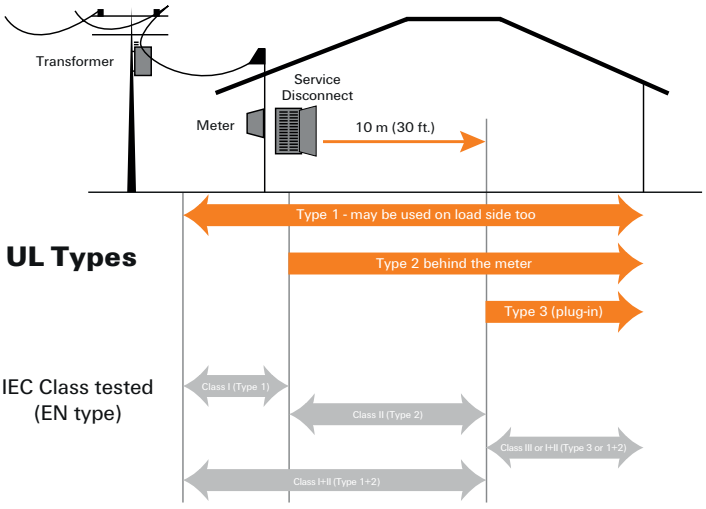
N/PE surge arresters in the product variants VPU AC 3+1 and VPU AC 1+1 indicate the status of the protective element visually (locally) and transmit it via the remote signaling output (dry contact).

Classification of Surge Protection Devices

What SPD types are covered?

What do the various product markings on a surge protective device (SPD) really mean, and which are important?
UL classifies SPDs into five types. It distinguishes based on the short-circuit current rating (SCCR) that the SPD can safely disconnect in the event of a fault. UL uses the SCCR and types to define the installation location.

SPD Type	Coverage
Type 1	• Permanently connected SPDs intended for installation between the secondary of the service transformer and the line side of the service equipment • Installed w/o use of external overcurrent protective device
Type 2	• Permanently connected SPDs intended for installation on the load side of the service equipment overcurrent device
Type 3	• Point of utilization SPDs • Installed at a minimum conductor length of 10m (30ft) from the electrical service panel
Type 4	• Component assembly consisting of one or more Type 5 components (typically MOV or SASD) • Must comply w/ limited current tests and nominal current • Not tested as stand-alone devices to intermediate and high current faults
Type 5	• Discrete component surge suppressors such as surge components (MOV or SASD) • May be mounted on a PCB connected by leads • Can be utilized within an enclosure with mounting means and wiring terminations • Not tested to low, intermediate or high fault currents • Must be mounted within another enclosure



All Weidmuller US series SPDs are UL type I and can safely be used in all three installation locations. This makes selecting the right protection significantly easier.

NFPA 79 Compliance for Safety

Whether you are designing industrial machinery or automated equipment, you will now be required to comply with the NEC 2023 (National Electrician Code) article 670.6, 215.15, 225.42 and 230.67.

NFPA 79 covers the electrical standard for industrial machinery and moving forward, requires installation of surge protection for safety interlock circuits and must be applied on all new machines and systems.

NFPA 79 as it applies to OEM's

- SPDs shall be installed in machines with safety circuits, dwelling units, dormitory units, guest rooms and guest suites of hotels and motels, areas of nursing homes and limited-care facilities used exclusively as patient sleeping rooms.
- Applies at the point of connection of the supply to the machine.
- Guarantees safety for people and property.
- Shall be a type I or type II.
- Shall have a nominal discharge current rating I_n of no less then 10kA.
- Does not apply retroactively, but must be applied to changes (except repairs) of existing machinery.

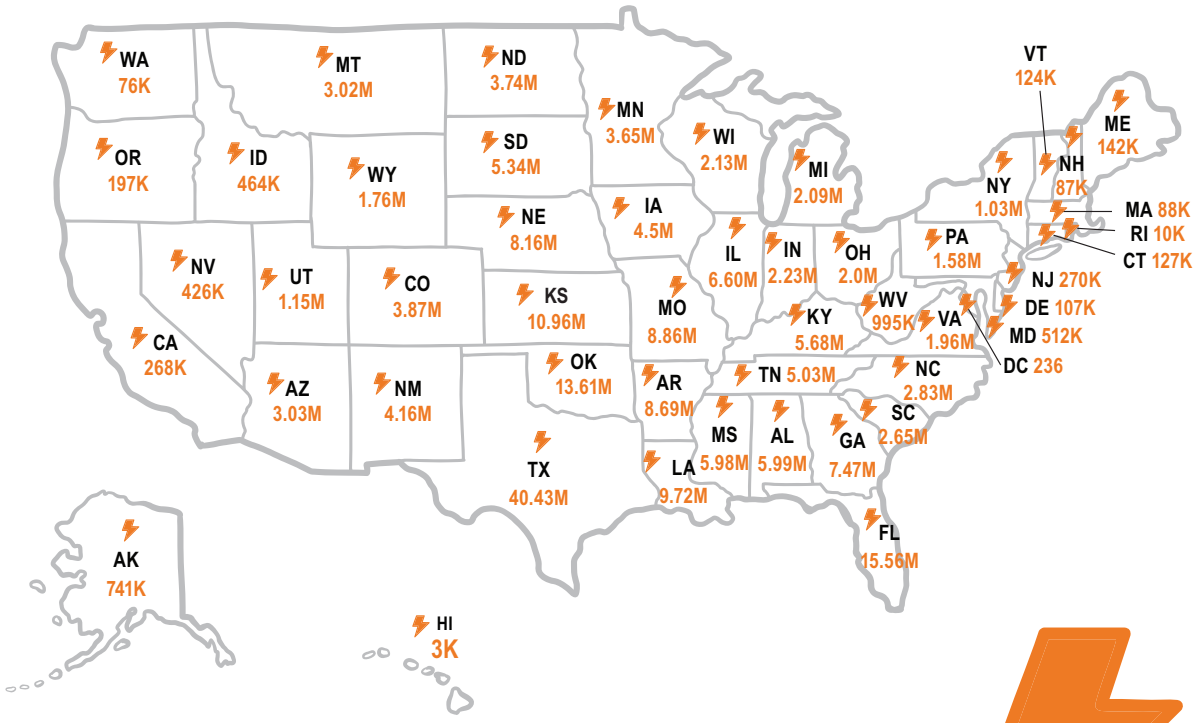
Protection against lightning and surge voltages is an important requirement in the new construction of increasingly sensitive installations and power systems. For the planner and installer, risk minimization and future-proof technical features to increase efficiency are paramount when selecting the right surge protection. The VARITECTOR PU AC series offers sophisticated advantages that make operation safer and easier:

- Pluggable arresters for easy maintenance
- Status display and remote signaling contact
- Suitable for use worldwide — UL and IEC certified components

The VARITECTOR PU AC series is compliant with industry standards without limitations, featuring a fully compatible, space-saving and innovative design for easy assembly and installation.

Varitector AC I+II Series Offers Reliable Protection of Energy Feeds from Lightning & Surge Damage

Lightning Strikes: In-cloud and ground flashes per state in 2024



States ranked by total number of lightning events

State	Lightning Events	State	Lightning Events	State	Lightning Events
Texas	40,434,603	Colorado	3,872,502	Alaska	741,594
Florida	15,568,357	North Dakota	3,742,639	Maryland	512,745
Oklahoma	13,610,926	Minnesota	3,653,423	Idaho	464,242
Kansas	10,963,205	Arizona	3,032,563	Nevada	426,049
Louisiana	9,725,496	Montana	3,025,512	New Jersey	270,881
Missouri	8,868,649	North Carolina	2,834,692	California	268,928
Arkansas	8,693,135	South Carolina	2,659,620	Oregon	197,077
Nebraska	8,162,141	Indiana	2,237,432	Maine	142,398
Georgia	7,479,998	Wisconsin	2,136,300	Connecticut	127,795
Illinois	6,601,204	Michigan	2,094,638	Vermont	124,361
Alabama	5,993,038	Ohio	2,006,781	Delaware	107,012
Mississippi	5,984,726	Virginia	1,961,930	Massachusetts	88,498
Kentucky	5,686,874	Wyoming	1,767,628	New Hampshire	87,716
South Dakota	5,354,729	Pennsylvania	1,587,210	Washington	76,841
Tennessee	5,031,229	Utah	1,153,951	Rhode Island	10,256
Iowa	4,500,096	New York	1,038,270	Hawaii	3,003
New Mexico	4,167,687	West Virginia	995,546	District of Columbia	236

USA:
209 Million
Lightning Events (2024)

Source:
Vaisala Xweather
Annual Lightning Report 2024
Values are approximate based on km² and average data.

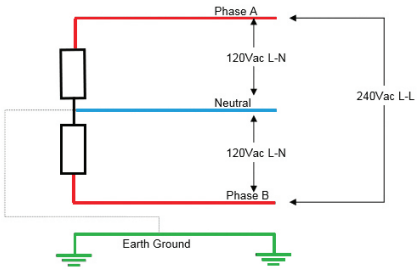
Quick Selection Guide

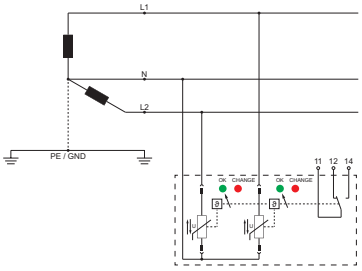
Power

Single-phase and Split-phase

Single-phase or Split-phase with three-wire system

- Mostly without GND
- Neutral is available
- SPDs are installed between phase and neutral
- Only recommend in the earthed power grid





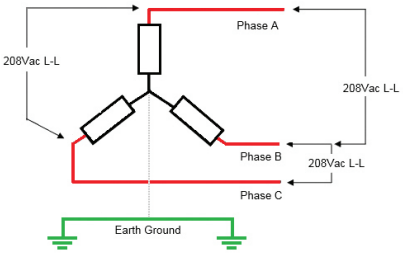
Type	Rated voltage U_n (AC)	Voltage protection rating (VPR)	Max. continuous voltage U_c (AC)	SCCR	Order no.
VPU AC II US 1 R 120/50	120 V	600 V	150 V	200 kA	**2730460000**
VPU AC II US 1 R 240/50	240 V	900 V	300 V	200 kA	**2736310000**
VPU AC II US 2 R 120/50	120 V	600 V	150 V	200 kA	**2730480000**
VPU AC II US 2 R 240/50	240 V	900 V	300 V	200 kA	**2736330000**
VPU AC II US 3 R 120/50*	120 V	600 V	150 V	200 kA	**2730520000**
VPU AC II US 3 R 240/50*	240 V	900 V	300 V	200 kA	**2730550000**

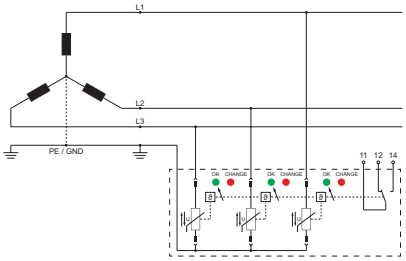
*Note: Split phase with neutral

Three-phase WYE (3 poles)

Star point can be grounded

- Neutral is not available
- SPDs are installed between phase and GND
- Used occasionally in industrial facilities with only three-phase loads



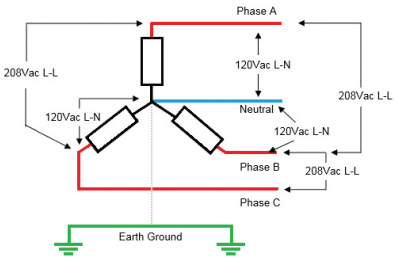


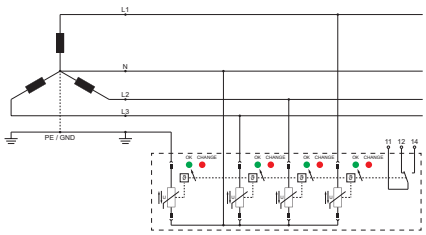
Type	Rated voltage U_n (AC)	Voltage protection rating (VPR)	Max. continuous voltage U_c (AC)	SCCR	Order no.
VPU AC II US 3 R 240/50	240 V	900 V	300 V	200 kA	**2730550000**
VPU AC II US 3 R 277/50	277 V	1,000 V	350 V	200 kA	**2730600000**
VPU AC II US 3 R 400/50	400 V	1,500 V	480 V	200 kA	**2730730000**
VPU AC II US 3 R 600/35	600 V	2,500 V	750 V	200 kA	**2730780000**

Three-phase WYE (4 poles)

Star point is used as neutral

- Neutral is available
- Three SPDs are installed between phase and neutral and one SPD is installed between neutral and GND
- One of the most common grids in America



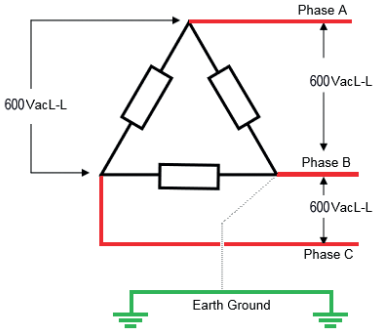


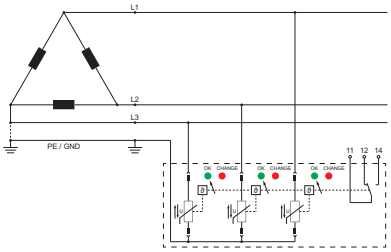
Type	Rated voltage U_n (AC)	Voltage protection rating (VPR)	Max. continuous voltage U_c (AC)	SCCR	Order no.
VPU AC II US 4 120/50	120 V	600 V	150 V	200 kA	**2730490000**
VPU AC II US 4 R 120/50	120 V	600 V	150 V	200 kA	**2730500000**
VPU AC II US 4 R 277/50	277 V	1,000 V	350 V	200 kA	**2730620000**
VPU AC II US 4 400/50	400 V	1,500 V	480 V	200 kA	**2730740000**
VPU AC II US 4 R 400/50	400 V	1,500 V	480 V	200 kA	**2730750000**
VPU AC II US 3+1 277/50	277 V	3,000 V	350 V	200 kA	**2730670000**
VPU AC II US 3+1 R 277/50	277 V	3,000 V	350 V	200 kA	**2730680000**

Delta system (3 poles)

Delta circuit with grounded corner

- Neutral is not available
- SPDs are installed between phase and GND
- Used occasionally in industrial facilities with only three-phase loads



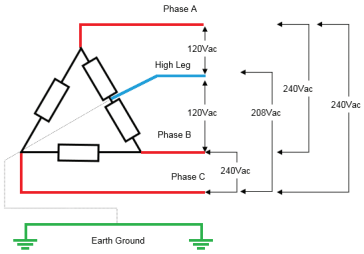


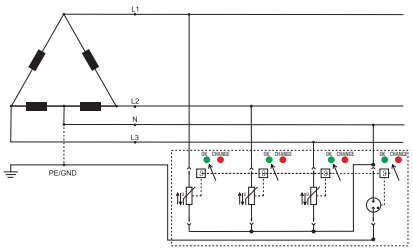
Type	Rated voltage U_n (AC)	Voltage protection rating (VPR)	Max. continuous voltage U_c (AC)	SCCR	Order no.
VPU AC II US 3 R 600/35	600 V	2,500 V	750 V	200 kA	**2730780000**

High leg Delta (4 poles)

Delta circuit High-leg grounded

- Neutral is available and bonded to grounded
- SPD's are installed between phase and Neutral
- Neutral often pulled into facility
- Common system configuration





Type	Rated voltage U_n (AC)	Voltage protection rating (VPR)	Max. continuous voltage U_c (AC)	SCCR	Order no.
VPU AC II US 3+1 240/50	240 V	1,000 V	300 V	200 kA	**2736360000**
VPU AC II US 3+1 R 240/50	240 V	1,000 V	300 V	200 kA	**2736390000**
VPU AC II US 3+1 R 240/50 Y	240 V	1,000 V	300 V	200 kA	**2736440000**

Your Needs on Lightning and Surge Protection are Versatile

Our product portfolio meets your demands across industries

Data center

① Main distribution and control room

VPU AC II US – pluggable surge protection for main-distribution, e.g. VPU AC II 3+1 R 277/50

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact; protect incoming and outgoing sensor signals

② Control panel

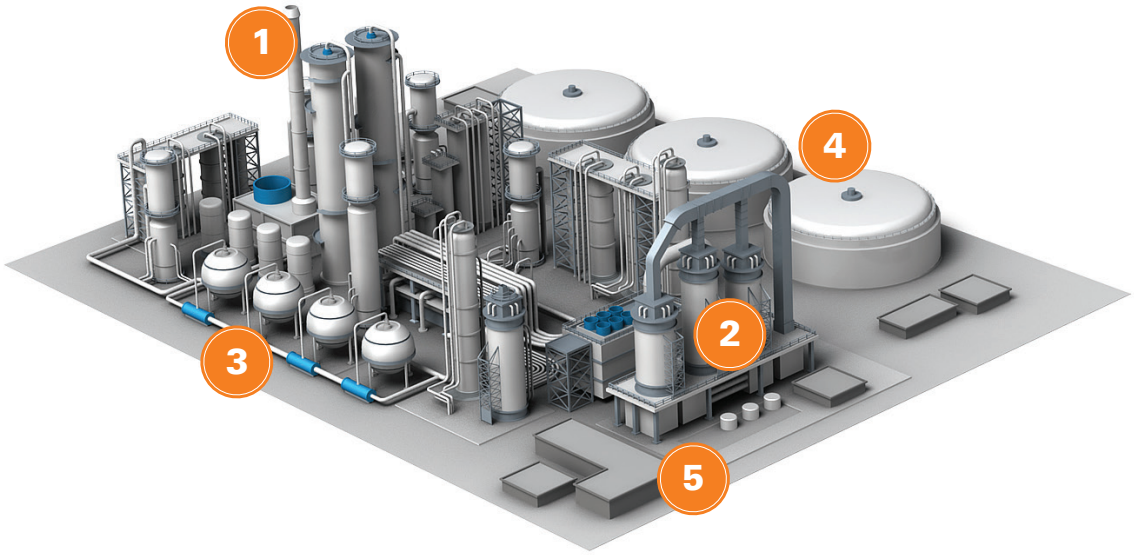
VPU AC II US series – a complete product series for all types of network configurations, e.g. VPU AC II US 3+1 R 277/50

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure

③ Heating, Ventilation and Air Conditioning

VPU AC II US – a complete product series for all types of network configurations, e.g. VPU AC II US 1+1 R 277/50 Y

Oil and Gas (Process)



1 Tank instrumentation & control network

VSPC EX – pluggable surge protection for serial data and signals within hazardous areas.

VSSC 4/6 EX – space-saving terminal block (12.4 mm) protection for digital and analog signals in hazardous areas

2 Tank pit and pump station

VPU AC II US – a complete product series for all types of network configurations, e.g. VPU AC II US 1+1 R 277/50 Y

VSSC 4/6 – space-saving terminal block (12.4 mm) protection for sensitive digital and analog signal inputs

3 Hazardous storage tank areas

VSPC EX – pluggable surge protection for serial data transmission

VSSC 4/6 – space-saving terminal block (12.4 mm) protection for sensitive digital and analog signal inputs

4 Feedstock tanks

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact

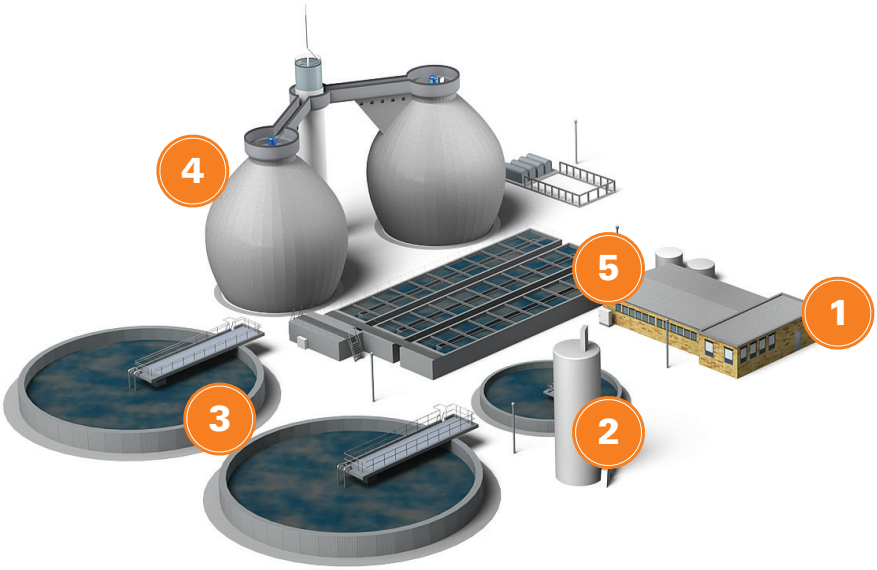
VSSC 4/6 – space-saving terminal block (12.4 mm) protection for sensitive digital and analog signal inputs

5 AC surge protection for main distribution & marshalling

VPU AC I –Type I protection at the main power feed-in, e.g. VPU AC II US 3+1 R 277/50

VSSC 4/6 – space-saving terminal block protection for digital and analog signal lines

Water Wastewater Treatment Plant (Process)



1 Main distribution and control room

VPU AC II US – pluggable surge protection for main-distribution, e.g. VPU AC II 3+1 R 277/50

2 Tower and tank control

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact

VSSC 4/6 – space-saving terminal block (12.4 mm) protection for sensitive digital and analog signal inputs

3 Local process control cabinet protection

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure

VPU AC II US – pluggable surge protection for sub-distribution, e.g. VPU AC II 3+1 R 277/50

4 Biogas plant and hazardous areas

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure

VSPC EX – pluggable surge protection for serial data and signals within hazardous areas

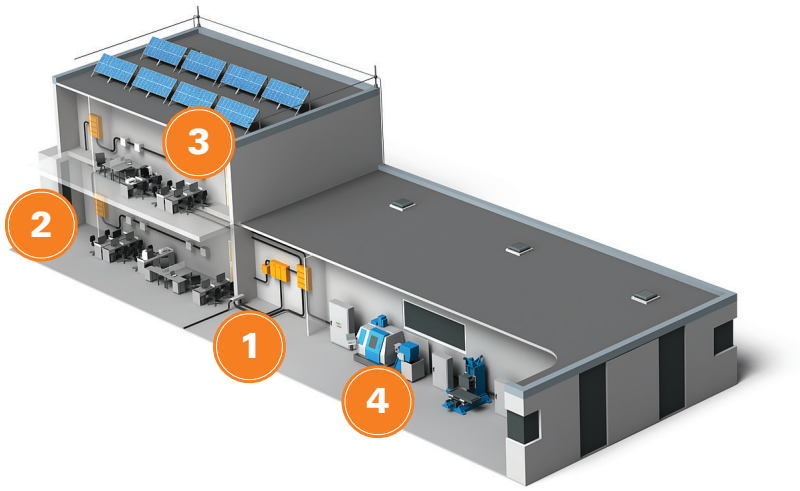
VSSC 4/6 EX – space-saving terminal block (12.4 mm) protection for digital and analog signals in hazardous areas

5 Ethernet and data network infrastructure

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure

VSPC EX – pluggable surge protection for serial data and signals within hazardous areas

Industrial Buildings and Machinery



① Main power feed-in

VPU AC II US series - surge protection devices designed for pre-meter or load side installation

② Surge protection in sub distribution cabinets

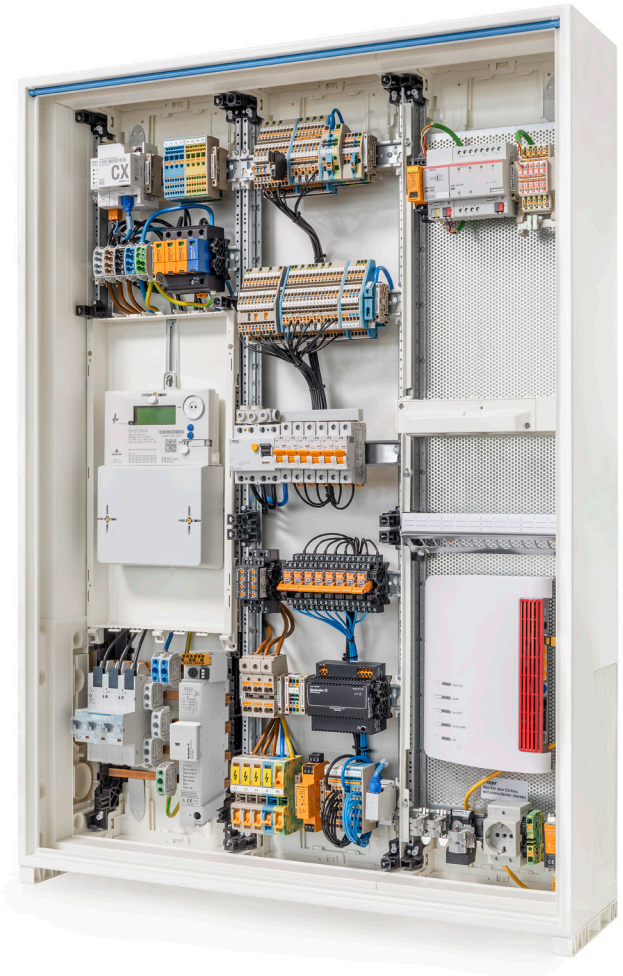
VPU AC II US series - for all grid type applications

③ Surge protection for solar systems

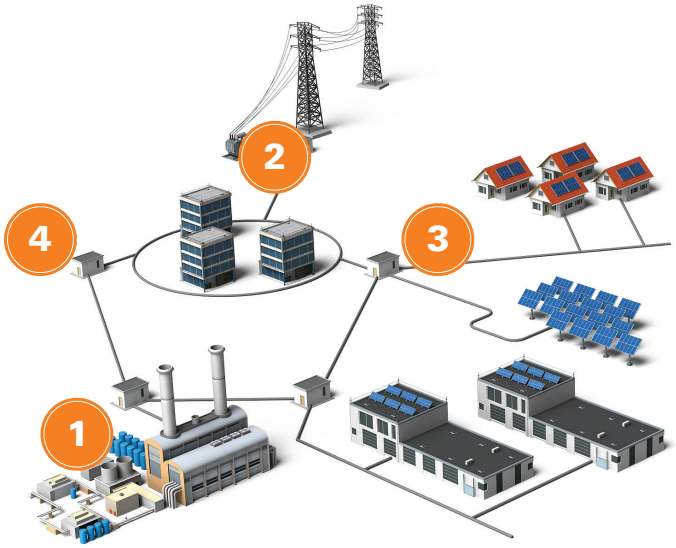
VPU PV II series - for protecting solar systems from 600 to 1500V.

④ Decentralized control and monitoring

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure



Utility (Transmission and Distribution)



1 Power generation plants

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact

VPU AC II US – pluggable protection all types of network configurations, e.g. VPU AC II US 1+1 277/50

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure

2 Sub distribution stations

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact

VPU AC II US series – a complete product series for all types of network configurations

3 Low voltage control stations

VPU Type III – compact protection at end-device level, e.g. VPU III R 230V/6kV AC

VPU AC II US series – a complete product series for all types of network configurations

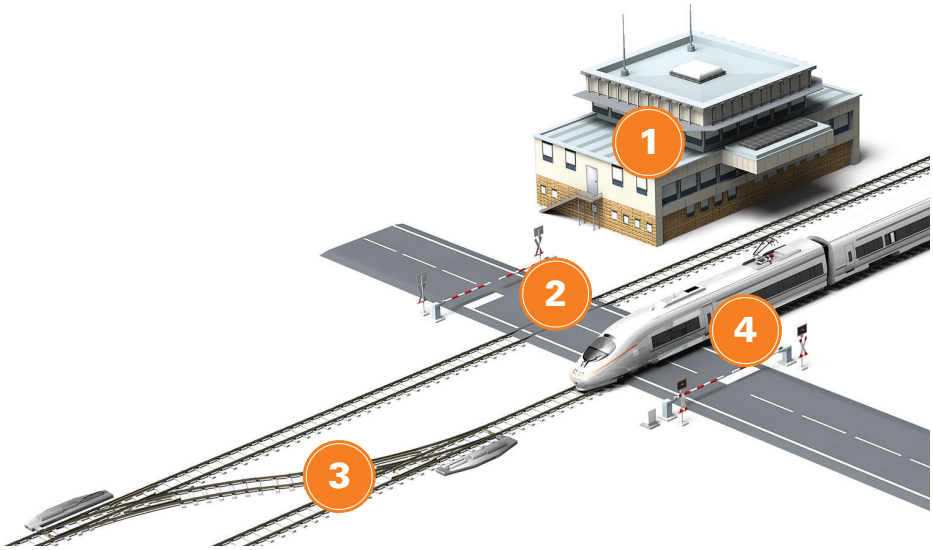
4 Decentralized control and monitoring

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact

VSSC 4/6 – space-saving terminal block protection for digital and analog signal lines

VDATA CAT 6 – for Ethernet data lines in SCADA infrastructure

Transportation and Railway Infrastructure



① Main interlocking system

VSPC – pluggable surge protection for signal marshalling

VPU AC II US series– Type I protection at the main power feed-in e.g. VPU AC II US 3+1 R 277/50

VDATA CAT 6 – for Ethernet data lines connecting field boxes along the rail road

② Field box signaling

VSPC – pluggable protection for analog or digital signals with integrated remote signaling contact

VSSC 4/6 – space-saving terminal block protection for digital and analog signal inputs

③ Junctions and crossings devices

VSSC 4/6 – space-saving terminal block protection for digital and analog signals, e.g. VSSC6 TR LD MOV 24V AC/DC

VPU AC II US series – a complete product series for all types of network configurations

④ On-board power supply infrastructure

VPU AC II US series– Type I protection for the on-board outlet infrastructure, e.g. VPU AC II US 3+1 R 277/50

Learn more about our lightning and surge protection devices at **www.weidmuller.com/varitector**

Our Complete Range of US-based Surge Devices for Energy Systems

VARITECTOR PU AC US Series

Type	Rated voltage UL	Grid recommendation	Order no.
60 V			
VPU AC II US 1 60/50	60 V	Single phase system	**2736210000**
VPU AC II US 1 R 60/50	60 V	Single phase system	**2736270000**
VPU AC II US 2 60/50	60 V	Two phase system	**2736280000**
VPU AC II US 2 R 60/50	60 V	Two phase system	**2730790000**
VPU AC II US 0 60/50	60 V	Spare arrester	**2726810000**
120 V			
VPU AC II US 1 120/50	120 V	Single phase system	**2730450000**
VPU AC II US 1 R 120/50	120 V	Single phase system	**2730460000**
VPU AC II US 2 120/50	120 V	Two phase system	**2730470000**
VPU AC II US 2 R 120/50	120 V	Two phase system	**2730480000**
VPU AC II US 3 120/50	120 V	Three phase system	**2730510000**
VPU AC II US 3 R 120/50	120 V	Three phase system	**2730520000**
VPU AC II US 4 120/50	120 V	Three phase system with N	**2730490000**
VPU AC II US 4 R 120/50	120 V	Three phase system with N	**2730500000**
VPU AC II US 0 120/50	120 V	Spare arrester	**2730440000**
240 V			
VPU AC II US 1 240/50	240 V	Single phase system	**2736300000**
VPU AC II US 1 R 240/50	240 V	Single phase system	**2736310000**
VPU AC II US 1+1 240/50	240 V	Single phase system	**2736340000**
VPU AC II US 1+1 R 240/50	240 V	Single phase system	**2736350000**
VPU AC II US 2 240/50	240 V	Two phase system	**2736320000**
VPU AC II US 2 R 240/50	240 V	Two phase system	**2736330000**
VPU AC II US 3 240/50	240 V	Three phase system	**2730540000**
VPU AC II US 3 R 240/50	240 V	Three phase system	**2730550000**
VPU AC II US 3+1 240/50	240 V	Three phase system with N	**2736360000**
VPU AC II US 3+1 R 240/50	240 V	Three phase system with N	**2736390000**
VPU AC II US 4 240/50	240 V	Three phase system with N	**2736400000**
VPU AC II US 4 R 240/50	240 V	Three phase system with N	**2736410000**
VPU AC II US 0 240/50	240 V	Spare arrester	**2730530000**
277 V			
VPU AC II US 1 277/50	277 V	Single phase system	**2730570000**
VPU AC II US 1 R 277/50	277 V	Single phase system	**2730580000**
VPU AC II US 1+1 277/50	277 V	Single phase system	**2730650000**
VPU AC II US 1+1 R 277/50	277 V	Single phase system	**2730660000**
VPU AC II US 2 277/50	277 V	Two phase system	**2730630000**
VPU AC II US 2 R 277/50	277 V	Two phase system	**2730640000**
VPU AC II US 3 277/50	277 V	Three phase system	**2730590000**
VPU AC II US 3 R 277/50	277 V	Three phase system	**2730600000**
VPU AC II US 3+1 277/50	277 V	Three phase system with N	**2730670000**
VPU AC II US 3+1 R 277/50	277 V	Three phase system with N	**2730680000**
VPU AC II US 4 277/50	277 V	Three phase system with N	**2730610000**
VPU AC II US 4 R 277/50	277 V	Three phase system with N	**2730620000**
VPU AC II US 0 277/50	277 V	Spare arrester	**2730560000**
400 V			
VPU AC II US 1 400/50	400 V	Single phase system	**2730700000**
VPU AC II US 1 R 400/50	400 V	Single phase system	**2730710000**
VPU AC II US 3 400/50	400 V	Three phase system	**2730720000**
VPU AC II US 3 R 400/50	400 V	Three phase system	**2730730000**
VPU AC II US 4 400/50	400 V	Three phase system with N	**2730740000**
VPU AC II US 4 R 400/50	400 V	Three phase system with N	**2730750000**
VPU AC II US 0 400/50	400 V	Spare arrester	**2730690000**
600 V			
VPU AC II US 1 R 600/35	600 V	Single phase system	**2736420000**
VPU AC II US 2 R 600/35	600 V	Two phase system	**2736430000**
VPU AC II US 3 R 600/35	600 V	Three phase system / Delta	**2730780000**
VPU AC II US 0 600/35	600 V	Spare arrestor	**2730760000**
240 V			
VPU AC II US 1 N-PE 240/65	240 V	Neutral protection	**2730800000**
VPU AC II US 0 N-PE 240/65	240 V	Spare arrester	**2726820000**
240 V with three stage status indication			
VPU AC II US 1 R 240/50 Y	240 V	Single phase system	**2736470000**
VPU AC II US 1+1 R 240/50 Y	240 V	Single phase system	**2736460000**
VPU AC II US 2 R 240/50 Y	240 V	Two phase system	**2736480000**
VPU AC II US 3 R 240/50 Y	240 V	Three phase system	**2736450000**
VPU AC II US 3+1 R 240/50 Y	240 V	Three phase system with N	**2736440000**
VPU AC II US 4 R 240/50 Y	240 V	Three phase system with N	**2736490000**
VPU AC II US 0 240/50 Y	240 V	Spare arrester	**2736500000**
VPU AC II US 0 N-PE 240 Y	240 V	Spare arrester	**2736520000**

Lightning and Surge Protection Application Range

VSPC
for instrumentation & control (I&C)

Type	Description	Order no.
VSPC 1CL 12VDC	1 or 2 channel current loop protection – some with remote alarm option	8924450000
VSPC 1CL 12VDC R		8951540000
VSPC 1CL 24VDC		8924480000
VSPC 1CL 24VDC R		8951550000
VSPC 1CL PW 24		8951510000
VSPC 2CL 12VDC		8924440000
VSPC 2CL 24VDC		8924470000
VSPC 2CL HF 24VDC		8924510000
VSPC 2SL 12VDC	2 or 4 wire status loop protection – some with remote alarm option	8924230000
VSPC 2SL 24VDC		8924330000
VSPC 4SL 5VDC		8924200000
VSPC 4SL 5VDC R		8951570000
VSPC 2SL 5VDC		8924210000
VSPC 2SL 5VDC R		8951610000
VSPC 4SL 24VDC		8924320000
VSPC 4SL 24VDC R		8951590000
VSPC 4SL 24VAC		8924340000
VSPC 4SL 24VAC R		8951600000
VSPC 2SL 24VAC		8924350000
VSPC 2SL 24VAC R		8951640000
VSPC 3/4WIRE 24VDC	Sensor protection	8924550000
VSPC GDT 2CH 150VAC/230VDC	General purpose protection	8924590000
VSPC MOV 2CH 230V		8924610000
VSPC RS485 2CH	Serial data protection	8924670000
VSPC BASE 1CL	Bases for current loop or status loop protectors	8924730000
VSPC BASE 1CL R		8951730000
VSPC BASE 1CL FG		8924290000
VSPC BASE 1CL PW		1070230000
VSPC BASE 2CL		8924710000
VSPC BASE 2CL FG		8924270000
VSPC BASE 2SL		8924720000
VSPC BASE 2/4CH	Bases for 2 and 4 channel protectors	8924740000
VSPC BASE 2/4CH FG		8924300000
VSPC BASE 2/4CH R		8951790000
VSPC BASE 2/4CH FG R		8951800000
VSPC CONTROL UNIT 24VDC	For remote status display	8972270000
VSPC TEST CONNECTOR	For testing	8924690000

VSSC
for data interfaces

Type	Description	Order no.
VSSC4 CL 12VDC 0.5A	Current loop protection FG model is for floating signals	1063720000
VSSC4 CL 24VAC/DC 0.5A		1063730000
VSSC4 CL FG 24VAC/DC 0.5A		1063770000
VSSC4 SL 12VDC 0.5A	Status loop protection FG model is for floating signals	1063830000
VSSC4 SL 24VAC/DC 0.5A		1063840000
VSSC4 SL FG 12VDC 0.5A		1063880000
VSSC4 SL FG 24VAC/DC 0.5A		1063890000
VSSC4 MOV 12VDC	Single conductor device protection to ground via the DIN-rail or screw terminal	1063950000
VSSC4 MOV 24VAC/DC		1063960000
VSSC4 MOV 120VAC/DC		1063990000
VSSC4 MOV 240VAC/DC		1064020000
VSSC6 CL 12VDC 0.5A	Current loop protection ground path via the DIN-rail or screw terminal	1064150000
VSSC6 CL 24VAC/DC 0.5A		1064170000
VSSC6 TR CL 12VDC 0.5A	Current loop protection with loop test disconnectors	1064220000
VSSC6 TR CL 24VAC/DC 0.5A		1064230000
VSSC6 CL FG 12VDC 0.5A	Current loop protection for floating signals	1064260000
VSSC6 CL FG 24VAC/DC 0.5A		1064270000
VSSC6 TR CL FG 12VDC 0.5A	Current loop protection for floating signals and with loop test disconnects	1064300000
VSSC6 TR CL FG 24VAC/DC 0.5A		1064310000
VSSC6 SL LD 12VDC 0.5A	Status loop protection with LED status indicators	1064340000
VSSC6 SL LD 24VAC/DC 0.5A		1064350000
VSSC6TR SL FG LD 12VDC 0.5A	Status loop protection for floating signals with loop test disconnectors and LED status indicators	1064490000
VSSC6 TR SL FG LD 24VUC 0.5A		1064500000
VSSC6 TR LD MOV 12VDC	2-wire device protection with loop test disconnectors and status LEDs	1064800000
VSSC6 TR LD MOV 24VAC/DC		1064810000
VSSC6 TR LD MOV 120VAC/DC		1064840000
VSSC6 TR LD MOV 240VAC/DC		1064860000
VSSC6 RS485	2-wire serial signal protection for data interface	1064980000
VSSC6 RTD	3-wire RTD protection	1139710000

Lightning and Surge Protection Application Range

VSPC Ex
For instrumentation & control (I&C)

Type	Description	Order no.
VSPC EX Series		
VSPC 1CL 5VDC EX	1 or 2 channel current loop protection for intrinsically safe circuits	**8953660000**
VSPC 1CL 12VDC EX		**8953590000**
VSPC 1CL 24VDC EX		**8953600000**
VSPC 2CL 24VDC EX		**8953720000**
VSPC 1CL PW 24V EX	Combination 1 Channel current loop signal and device protection for intrinsically safe circuits	**8953610000**
VSPC 2SL 12VDC EX	2 or 4 wire status loop protection for intrinsically safe circuits	**8953620000**
VSPC 2SL 12VAC EX		**8953630000**
VSPC 2SL 24VDC EX		**8953670000**
VSPC 2SL 48VAC EX		**8953640000**
VSPC 4SL 12VDC EX		**1161170000**
VSPC 4SL 12VAC EX		**1161150000**
VSPC 4SL 24VDC EX		**1161190000**
VSPC 4SL 24VAC EX		**1161180000**
VSPC 3/4WIRE 5VDC EX	Combination 2 or 4 wire status loop protection for intrinsically safe circuits	**8953650000**
VSPC BASE 1 CL FG EX	EX base element, indirect earthing / floating earth FG	**8951810000**
VSPC BASE 2CL FG EX		**8951820000**
VSPC BASE 1CL PW FG EX		**1070470000**
VSPC BASE 2SL FG EX		**8951830000**
VSPC BASE 4SL FG EX		**8951840000**

VSSC Ex
For Instrumentation & control (I&C)

Type	Description	Order no.
VSSC EX Series		
VSSC4 CL FG 24VAC/DC Ex	4 wire status loop protection for intrinsically safe circuits	**1063810000**
VSSC4 CL FG 48VAC/DC Ex		**1063820000**
VSSC4 SL FG 24VAC/DC Ex	2 or 4 wire status loop protection for intrinsically safe circuits	**1063930000**
VSSC4 SL FG 48VAC/DC Ex		**1063940000**
VSSC4 GDT55VUC 20kA EX	Combination 1 Channel current loop signal and device protection for intrinsically safe circuits	**1064040000**
VSSC6TRCLFG24VAC/DC EX	1 or 2 channel current loop protection for intrinsically safe circuits	**1066490000**
VSSC6 TR SLFG 24 V DC EX		**1421440000**
AP VSSC4 LB	end plate	**1067240000**
AP VSSC6 LB	end plate	**1067230000**

VSSC Ex
For data interfaces

Type	Description	Order no.
VSSC EX Series		
VSSC6 RS485 PA EX	Protection for RS422/485 intrinsically safe signal interfaces	**1065020000**
VSSC6 RTD EX	Protection for intrinsically safe PT100 signal interfaces	**1130670000**

VDATA CAT 6
For Ethernet data lines in SCADA infrastructure

Type	Description	Order no.
VDATA CAT 6	Protection of local area networks and installation to the RJ45 socket	**1348590000**

VARITECTOR TEST
For testing VSPC Series plug-in arrestors

Type	Description	Measurement range	Order no.
V-TEST	Portable tester for VSPC	U < 1000 V/I = 1 mA	**8951860000**

VARITECTOR TEST II
For testing VPU AC & VPU PV Series plug-in arrestors

Type	Description	Measurement range	Order no.
V-TEST II	Portable tester for VPU	U < 1500 V/I = 0.1; 0.5; 1 mA	**2661040000**

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As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs.
Together we set standards in Smart Industrial Connectivity.

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