Surge Protection

Electronics

Exceptional Protection with High-quality Products

Due to the increasing connections and interactions of components and systems, the protection of individual areas is becoming of decisive importance. And surge protection plays a more important role than ever before. As a long-term, innovative partner, Weidmüller stands for reliable high-quality products for circuit and surge protection. In-depth specialist knowledge and hundreds of tailor-made protection solutions make us your ideal partner.

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Surge Protection

The world is becoming more and more digital and surge protection is playing a more important role than ever before. Technical infrastructures and plants have become increasingly complex and sensitive. Due to the increasing connections and interactions of components and systems, the protection of individual areas has become of decisive importance.

As a long-term, innovative partner, Weidmüller stands for reliability and high-quality products for surge protection. With specialization and expertise, we have developed hundreds of tailor-made surge protection solutions which make us your ideal partner. With our broad and comprehensive VARITECTOR product portfolio we offer surge protection for energy systems, for instrumentation and control, and for data interfaces.

TYPE I AC Surge Protection

VARITECTOR PU AC Series – VPU AC I

Type 1/Class 1 Surge protection for AC surge protection before the service panel. Tested by IEC/EN 61643-11 up to 25 kA (10/350µs) lightning pulses, this device supports all common energy grids like TNC, TNCS, TNS and TT for 230/400 V or 400/690 V systems. VPU AC I series devices combines both varistor/spark gap technology in each arrester.

Features

- Fuseless operation up to 315 A
- Replaceable and lockable arrester for reliability and security
- Full Status Control (Local display and remote signaling)
- DIN-Rail TS-35 mountable with space saving design at only 18mm/pole
- N/PE surge arresters in the product variants VPU AC 1+1 & VPU AC 1+1 R, also in 3+1 variants

Applications

- Panelboards
- Motor pumps
- Healthcare
- Computer equipment
- Transfer switch
- UPS system
- Building management systems
- Switchboard

		Network Configuration				
Type	**Voltage UL Un**	**IEC Grid Type**	**UL Grid Type**	**Type/Class**	**Approvals**	**Order Number**
VPU AC I 1 300/12.5	110V, 120V, 220V, 240V	TN-C	Single Phase	Type 1/Class 1CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591380000**
VPU AC I 1 R 300/12.5	110V, 120V, 220V, 240V	TN-C				**2591390000**
VPU AC I 1+1 300/12.5	110V, 120V, 220V, 240V	TN-C, TN-C-S, TN-S, TT				**2591480000**
VPU AC I 1+1 R 300/12.5	110V, 120V, 220V, 240V	TN-C, TN-C, TN-S, TT				**2591490000**
VPU AC I 2 300/12.5	110V, 120V, 220V, 240V	TN-C				**2591400000**
VPU AC I 2 R 300/12.5	110V, 120V, 220V, 240V	TN-C				**2591410000**
VPU AC I 3 300/12.5	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner			**2591440000**
VPU AC I 3 R 300/12.5	240V, 120/240V	TN-C				**2591440000**
VPU AC I 3+1 300/12.5	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg			**2591460000**
VPU AC I 3+1 R 300/12.5	120/208V, 120/240V	TN-C-S, TN-S, TT				**2591470000**
VPU AC I 4 300/12.5	120/208V, 120/240V	TN-C-S, TN-S	Three Phase WYE, Delta High Leg			**2591420000**
VPU AC I 4 R 300/12.5	120/208V, 120/240V	TN-C-S, TN-S				**2591430000**

TYPE II AC Surge Protection

VARITECTOR PU AC Series – VPU AC II US / VPU AC II

cULus Listed Type 2/Type 1 CA Surge protection for AC installations after the service entrance and or TYPE 1 CA after the transformer. The VARITECTOR portfolio offers lightning and surge protection solutions for voltages from 60 V to 600 VAC for diverse applications in energy supply, renewable energies, water management, machinery, transportation, and process industry. The products are tested according to the latest standards EN 61643-11/12 (AC) and UL 1449 Ed. 4 to meet NFPA 79.

Features

- No back-up fuse needed up to 315 A
- Replaceable and lockable MOV Protection
- GDT and MOV Protection Options
- Full Status Control (Local display and remote signaling)
- DIN-Rail TS-35 mountable with space saving design at only 18mm/pole
- N/PE surge arresters in the product variants VPU AC 3+1 & VPU AC 1+1

Applications

- Water/Wastewater Treatment
- Oil & Gas
- Billboards
- Machinery (inside dwelling)
- Factory Automation
- MCC centers
- Railway stations/Railways
- Data Centers

		Network Configuration				
Type	**Voltage UL Un**	**IEC Grid Type**	**UL Grid Type**	**Type/Class**	**Approvals**	**Order Number**
VPU AC II 1 75/50	60V	TN-C	Single Phase	Type 2/Class 1CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2636990000**
VPU AC II US 1 60/50	60V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736210000**
VPU AC II 1 R 75/50	60V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591620000**
VPU AC II US 1 R 60/50	60V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736270000**
VPU AC II 2 75/50	60/120V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637000000**
VPU AC II US 2 60/50	60/120V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736280000**
VPU AC II 2 R 75/50	60/120V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591630000**
VPU AC II US 2 R 60/50	60/120V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730790000**
VPU AC II 1 150/50	120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591650000**
VPU AC II US 1 120/50	120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730450000**
VPU AC II 1 R 150/50	120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591660000**
VPU AC II US 1 R 120/50	120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730460000**
VPU AC II 2 150/50	110V, 120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591670000**
VPU AC II US 2 120/50	110V, 120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730470000**
VPU AC II 2 R 150/50	110V, 120V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591680000**
VPU AC II US 2 R 120/50	110V, 120V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730480000**
VPU AC II 3 150/50	120/240V	TN-C	Single Split Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591690000**
VPU AC II US 3 120/50	120/240V	TN-C	Single Split Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730510000**
VPU AC II 3 R 150/50	120/240V	TN-C	Single Split Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591700000**
VPU AC II US 3 R 120/50	120/240V	TN-C	Single Split Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730520000**

VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

		Network Configuration				
Type	**Voltage UL Un**	**IEC Grid Type**	**UL Grid Type**	**Type/Class**	**Approvals**	**Order Number**
VPU AC II 4 150/50	120/208V	TN-C	Three Phase WYE w/Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591710000**
VPU AC II US 4 120/50	120/208V	TN-C	Three Phase WYE w/Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730490000**
VPU AC II 4 R 150/50	120/208V	TN-C	Three Phase WYE	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591000000**
VPU AC II US 4 R 120/50	120/208V	TN-C	Three Phase WYE	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730500000**
VPU AC II 1 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591020000**
VPU AC II US 1 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736300000**
VPU AC II 1 R 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591030000**
VPU AC II US 1 R 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736310000**
VPU AC II 1+1 300/50	110V, 20V, 220V, 240V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591060000**
VPU AC II US 1+1 240/50	110V, 120V, 220V, 240V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736340000**
VPU AC II 1+1 R 300/50	110V, 20V, 220V, 240V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591070000**
VPU AC II US 1+1 R 240/50	110V, 120V, 220V, 240V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736350000**
VPU AC II 2 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591040000**
VPU AC II US 2 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736320000**
VPU AC II 2 R 300/50	110V, 20V, 220V, 240V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591050000**
VPU AC II US 2 R 240/50	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736330000**
VPU AC II 3 300/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591160000**
VPU AC II US 3 240/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730540000**
VPU AC II 3 R 300/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2591170000**
VPU AC II US 3 R 240/50	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730550000**
VPU AC II 3+1 300/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591080000**
VPU AC II US 3+1 240/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736360000**
VPU AC II 3+1 R 300/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591090000**
VPU AC II US 3+1 R 240/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736390000**
VPU AC II 4 300/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591140000**
VPU AC II US 4 240/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736400000**
VPU AC II 4 R 300/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591150000**
VPU AC II US 4 R 240/50	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736410000**
VPU AC II 1 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591350000**
VPU AC II US 1 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730570000**
VPU AC II 1 R 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591360000**
VPU AC II US 1 R 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730580000**
VPU AC II 1+1 350/50	240V, 277V	TN, TN-S, TT	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637030000**
VPU AC II US 1+1 277/50	240V, 277V	TN, TN-S, TT	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730650000**

VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

Network Configuration						
Type	**Voltage UL Un**	**IEC Grid Type**	**UL Grid Type**	**Type/Class**	**Approvals**	**Order Number**
VPU AC II 1+1 R 350/50	240V, 277V	TN-S	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637040000**
VPU AC II US 1+1 R 277/50	240V, 277V	TN-S	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730660000**
VPU AC II 2 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637010000**
VPU AC II US 2 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730630000**
VPU AC II 2 R 350/50	240V, 277V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637020000**
VPU AC II US 2 R 277/50	240V, 277V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730640000**
VPU AC II 3 350/50	277/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591100000**
VPU AC II US 3 277/50	277/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730590000**
VPU AC II 3 R 350/50	277V/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591110000**
VPU AC II US 3 R 277/50	277V/480V, 240V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730600000**
VPU AC II 3+1 350/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637050000**
VPU AC II US 3+1 277/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730670000**
VPU AC II 3+1 R 350/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2637060000**
VPU AC II US 3+1 R 277/50	120/208V, 120/240V, 220/380V, 230/400V, 240/415V, 277/480V, 347/600V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730680000**
VPU AC II 4 350/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591120000**
VPU AC II US 4 277/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase Wye w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730610000**
VPU AC II 4 R 350/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591130000**
VPU AC II US 4 R 277/50	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE w/ Neutral, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730620000**
VPU AC II 1 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591210000**
VPU AC II US 1 400/50	400V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730700000**
VPU AC II 1 R 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591220000**
VPU AC II US 1 R 400/50	400V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730710000**

VARITECTOR PU AC Series – VPU AC II US / VPU AC II continued

		Network Configuration				
Type	**Voltage UL Un**	**IEC Grid Type**	**UL Grid Type**	**Type/Class**	**Approvals**	**Order Number**
VPU AC II 2 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591230000**
VPU AC II 2 R 480/50	400V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591240000**
VPU AC II 3 480/50	277/480V	TN-C	Three Phase WYE w/o Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591250000**
VPU AC II US 3 400/50	277/480V	TN-C	Three Phase WYE w/o Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730720000**
VPU AC II 3 R 480/50	277/480V	TN-C	Three Phase WYE w/o Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591260000**
VPU AC II US 3 R 400/50	277/480V	TN-C	Three Phase WYE w/o Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730730000**
VPU AC II 4 480/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591270000**
VPU AC II US 4 400/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730740000**
VPU AC II 4 R 480/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591280000**
VPU AC II US 4 R 400/50	220/380V, 230/400V	TN-C	Three Phase WYE w/ Neutral	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730750000**
VPU AC II 1 R 750/35	600V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591300000**
VPU AC II US 1 R 600/35	600V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736420000**
VPU AC II 2 R 750/35	600V	TN-C	Single Phase	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591310000**
VPU AC II US 2 R 600/35	600V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736430000**
VPU AC II 3 R 750/35	480V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591320000**
VPU AC II US 3 R 600/35	480V	TN-C	Three Phase WYE w/o Neutral, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2730780000**
VPU AC II 1 N-PE 305/65	240V	TT	Delta Grounded Corner	Type 2/Class 1	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2591180000**

Learn more about our VARITECTOR lightning and surge protection products, including the *VARITECTOR Selector Guide for North America* on our website at www.weidmuller.com/varitector

TYPE II AC Surge Protection

VARITECTOR PU AC Series – VPU AC II "Y"

cULus Listed Type 2/Type 1CA Surge protection for AC surge protection after the service panel. The VPU AC II range of surge protectors all offer end of life optical status indication. In addition, the "Y" variant provides a Yellow pre-warning status before complete failure of the arrester. This 2-stage indication provided (visually and via dry contact) gives users ease of maintenance before fully replacing the cartridge.

		Network Configuration				
Type	**Typical Supply Voltage UL**	**IEC Grid Type**	**UL Grid Type**	**Type/Class**	**Approvals**	**Order Number**
VPU AC II 1 R 300/50 Y	110V, 120V, 220V, 240V	TN-C	Single Phase	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2639350000**
VPU AC II US 1 R 240/50 Y	110V, 120V, 220V, 240V	TN-C	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736470000**
VPU AC II 1+1 R 300/50 Y	110V, 120V, 220V, 240V	TN, TN-S, TT	Single Phase	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2639340000**
VPU AC II US 1+1 R 240/50 Y	110V, 120V, 220V, 240V	TN, TN-S, TT	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736460000**
VPU AC II 2 R 300/50 Y	110V, 120V, 220V, 240V	TN	Single Phase	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2639360000**
VPU AC II US 2 R 240/50 Y	110V, 120V, 220V, 240V	TN	Single Phase	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736480000**
VPU AC II 3 R 300/50 Y	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2639330000**
VPU AC II US 3 R 240/50 Y	240V, 120/240V	TN-C	Single Split Phase, Delta Ungrounded, Delta Grounded Corner	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736450000**
VPU AC II 3+1 R 300/50 Y	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2639320000**
VPU AC II US 3+1 R 240/50 Y	120/208V, 120/240V	TN-C-S, TN-S, TT	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736440000**
VPU AC II 4 R 300/50 Y	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	Type 1 CA	IEC 62305-4, IEC/DIN EN 61643-11/12, UL 1449.Ed 4th, cURus	**2639370000**
VPU AC II US 4 R 240/50 Y	120/208V, 120/240V	TN-C-S, Tn-S	Three Phase WYE, Delta High Leg	TYPE 2/Type 1 CA	cULus, UL 1449.Ed 4th, IEC 62305-4, IEC/DIN EN 61643-11/12	**2736490000**

Accessories

Type	Description	Order Number
SDIK PH1	VDE-insulated crosshead screwdriver, Phillips size 1, Blade length 80 mm	**9008570000**
SDIS 1.0X5.5X125	VDE-insulated screwdriver with slotted blade 1.0x5.5x125 mm	**9008410000**
ESG 6/15 K MC NE WS	ESG, Device marker x 15mm, PA 66, Color: white, Self-Adhesive	**1880100000**
VPU AC II 0 150/50	Spare Arrester for All VPU AC II 150/50 Surge protectors	**2591640000**
VPU AC II US 0 120/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.25 kV	**2730440000**
VPU AC II 0 300/50	Spare Arrester for All VPU AC II 300/50 Surge protectors	**2591010000**
VPU AC II US 0 240/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.5 kV	**2730530000**
VPU AC II 0 350/50	Spare Arrester for All VPU AC II 350/50 Surge protectors	**2591340000**
VPU AC II US 0 277/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.75 kV	**2730560000**
VPU AC II 0 480/50	Spare Arrester for All VPU AC II 480/50 Surge protectors	**2591200000**
VPU AC II US 0 400/50	Spare arrester, Surge protection, UP(L/N-PE) ≤ 2.3 kV	**2730690000**
VPU AC II 0 750/35	Spare Arrester for All VPU AC II 750/35 Surge protectors	**2591290000**
VPU AC II US 0 600/35	Spare arrester, Surge protection, UP(L/N-PE) ≤ 3.4 kV	**2730760000**
VPU AC II 0 300/50 Y	Spare Arrester for All VPU AC II 300/50 Y Surge protectors	**2659840000**
VPU AC II US 0 240/50 Y	Spare arrester, Surge protection, UP(L/N-PE) ≤ 1.5 kV	**2736500000**
VPU AC II 0 N-PE 305/65 Y	Spare Arrester for All VPU AC II N-PE 305/65 Y Surge protectors	**2659950000**
VPU AC II US 0 N-PE 240/65	Spare arrester, Surge protection, TT only for N-PE, UP(L/N-PE) ≤ 1.5 kV	**2726820000**
PLUG VPU	Remote Status Indicator Connector for ALL VPU AC Types	**1402570000**

VPU AC II 0 150/50

Instrumentation and Control (I&C) Surge Protection

VARITECTOR SPC – VSPC and VSPC EX

Surge protection for installation at the immediate vicinity of I&C devices. before the service panel. The VARITECTOR SPC features a pluggable arrester which can be easily replaced or tested without any re-wiring. The simple snap-on VSPC BASE allows for convenient mounting while simultaneously establishing a PE contact via the mounting rail.

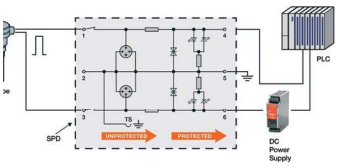
Featuring both, simple operation and high packaging density, the VSPC provides high-quality surge protection for all I&C signals. A colored voltage marker tag allows maintenance staff to quickly identify the unit in the cabinet. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes (GDT) or varistors (MOV).

VSPC Surge Protector - Pluggable

VSPC Control Unit

Features

- UL 497B approved, standard for Data Comm./Fire-Alarm Circuits
- V-Ground for earthing all sensor signals
- Pluggable arrester with locking clip gives ability to withstand extreme loads
- Remote signaling for monitoring and capability to control via the VSPC CONTROL UNIT.
- Single or multi-channel options
- Hazardous variants with cCSAus approval for use in C1div2, Zone 2 locations
- AC/DC (UC) rated voltage variants 5 VUC, 12 VUC, 24 VUC and 48 VUC with color code for voltage levels.



Connection Diagram

Applications

- Water/Waste Water Treatment
- Oil & Gas
- Machinery
- Power Supply circuits
- Measurement and control
- Data processing
- Telecom

V-Test

Type	Description	Order Number
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

Type	Description	Order Number
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
V-TEST	Portable tester for VSPC	8951860000
V-TEST II	Portable tester for VPU	2661040000

* Additional Types available

Protection in Intrinsically Safe Circuits

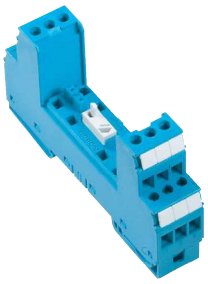
VARITECTOR SPC EX

Features

- Approved for use in Zones 2 and 1
- Pluggable arresters
- Can be tested with the V-TEST device
- Available with floating earth PE connections
- Can be used with IEC 62305 and ATEX applications
- Tested in accordance with IEC 61643-21:08 D1, C1, C2, C3
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE
- cCSAus approved for use in Class 1, Division 1 and Class 1, Zone 1 locations

SPC EX

Type	Description	Operating Temperature	Order Number
VSPC 1CL 5 V DC EX	Analog Signal Surge single signal arrestor 5 V DC	-40°C to +70°C	**8953660000**
VSPC 1CL 12 V DC EX	Analog Signal Surge single signal arrestor 12 V DC	-40°C to +70°C	**8953590000**
VSPC 1CL 24 V DC EX	Analog Signal Surge single signal arrestor 24 V DC	-40°C to +70°C	**8953600000**
VSPC BASE 1CL FG EX	EX base, indirect earthing/floating earth	-40°C to +70°C	**8951810000**
VSPC 2CL 24 V DC EX	Analog Signal Surge two signals arrestor 24 V DC	-40°C to +70°C	**8953720000**
VSPC BASE 2CL FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	**8951820000**
VSPC 1CL PW 24V EX	Current loop signal and device surge arrestor 24 V DC	-40°C to +70°C	**8953610000**
VSPC BASE 1CL PW FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	**1070470000**
VSPC 2SL 12 V DC EX	Surge protection for two binary signals 12 V DC	-40°C to +70°C	**8953620000**
VSPC 2SL 12 V AC EX	Surge protection for two binary signals 12 V AC	-40°C to +70°C	**8953630000**
VSPC 2SL 24 V DC EX	Surge protection for two binary signals 24 V DC	-40°C to +70°C	**8953670000**
VSPC 2SL 48 V AC EX	Surge protection for two binary signals 48 V AC	-40°C to +70°C	**8953640000**
VSPC BASE 2CL PW FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	**8951830000**
VSPC 4SL 12 V DC EX	Surge protection for four binary signals 12 V DC	-40°C to +70°C	**1161170000**
VSPC 4SL 12 V AC EX	Surge protection for four binary signals 12 V AC	-40°C to +70°C	**1161150000**
VSPC 4SL 24 V DC EX	Surge protection for four binary signals 24 V DC	-40°C to +70°C	**1161190000**
VSPC 4SL 48 V AC EX	Surge protection for four binary signals 48 V AC	-40°C to +70°C	**1161180000**
VSPC BASE 4CL PW FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	**8951840000**
VSPC 3/4 WIRE 5 V DC EX	Surge protection for 3/4 wire signals 5 V DC	-40°C to +70°C	**8953650000**
VSPC BASE 4SL FG EX	EX base, indirect earthing/floating earth FG	-40°C to +70°C	**8951840000**



Accessories

Type	Description	Order Number
V-Test	Portable test for VSPC pluggable arresters	**8951860000**
VSPC Control Unit	Monitoring remote alarms of individual VSPC...R modules. (max . of 10 units)	**8972270000**
VSPC LOCKING CLIP	Fastening element	**9008570000**
DEK 5/5 PLUS MC NE WS	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, white	**1854490000**
QB 17.8 / 2	Cross connectors between the VSPC signal contacts & Control Unit	**1309470000**