

**You want to safely control processes in hazardous environments
Klippon® Protect – certified enclosures for your application
Let's connect.**

Klippon® Protect enclosure system – Control Station



Enclosures for your application needs

We will provide you with individual assembled solutions from a single source

Industry-specific enclosure solutions have to withstand immense stresses if they are to reliably protect sensitive electronic components and control elements from external influences. We comply with the latest international standards and ensure that your enclosure solutions will meet the safety, durability and quality requirements demanded in extreme environments. A good example of this is the oil and gas industry, where sensitive operating controls and display elements have to operate under harsh conditions whilst also meeting the conditions of use within a hazardous area.

We satisfy these wide-ranging requirements with the Control Station as part of our Klippon® Protect enclosure system. This application product complements our existing portfolio and includes variants that can be equipped with up to four reliable operating and display elements. Importantly, our customers have a single source for applications that require measurement and control functionality within a harsh environment.

For maximum safety, reliable operation and low maintenance expectations, order your individual Klippon Control Station from a reliable and proven single source.



Benefits we include for you

Our standards give you flexibility

A variety of sizes and materials

Depending on the application and environmental conditions, enclosures are manufactured from 316L stainless steel, aluminium or glass-fibre reinforced polyester. The aluminium enclosures are RAL 7001 powder-coated in the factory, while the polyester enclosures have a RAL 9001 finish. The enclosure size depends on the number of control and signalling elements to be mounted.



Unlimited combination possibilities

We will provide you with the right operating elements for your application. For example, we have a range of push buttons in green, red, black, white, blue or yellow to choose from. We also provide mushroom-head emergency stop pushbuttons and rotary and key-operated switches or buttons with two or three switching positions. Optical status signalling is achieved by utilising indicator lights and illuminated pushbuttons available in red, green, yellow, blue or white. A dial drive for potentiometers is available as a control element.



Switching and signalling elements

Switching elements with two NC contacts, two NO contacts or a combination of one NC and one NO contact can be selected to match the control elements. Potentiometers are available in 1 or 10 Kiloohm versions. Indicator lights match the colour of the cover, while illuminated pushbuttons in versions with an NC or NO contact are available for each colour. All elements have the pressure-resistant encapsulation protection class.



Cable glands and pressure-equalising element with drainage

Depending on the size of the enclosure, one or two nickel-plated brass or polyamide cable glands in the sizes M20 and/or M25 can be mounted. The standard installation is shown below; customer-specific configurations are available upon request. We also recommend the use of our pressure-equalising element with drainage facility: BDX.



Durability for maximum requirements

Klippon® Protect sets the highest standards with stainless steel enclosures

The enclosure ranges Klippon® TB and Klippon® STB are offered in stainless steel and boost market leading performance characteristics, which even allow them to meet the demanding requirements for use with the harshest environments. The enclosures are certified and comply with the latest international standards – including ATEX and IECEx.

Additional features:

- Standard silicone seals for use in extreme temperature environments
- High Ingress Performance - IP66
- Welded-on mounting feet for wall mounting



Technical data

Material	Stainless steel
Material	Stainless steel 1.4404 (316L) 1.50 mm
Surface finish	Mirror-polished
Colour	Natural
IP protection class	IP 54; IP 66
Ambient temperature	-55 °C to 55 °C
Seal material of enclosure	Silicone
Seal material of command and signalling units	EPDM
Flammability rating	-
Impact resistance IK	7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module
Cable gland material	Nickel-plated brass
Cable gland clamping area min. - max. in mm	
M20	3-12 mm
M25	10-18 mm
Max. rated cross-section	2.5 mm ²
Max. operating voltage with integrated illuminated pushbutton or light module	400 V 250 V
Maximum operating current at 40 °C ambient temperature	
1.5 mm ² - T6	10 A
1.5 mm ² - T5	16 A
2.5 mm ² - T6	16 A
Maximum operating current at 55 °C ambient temperature	
1.5 mm ² - T4	16 A
1.5 mm ² - T5	10 A
2.5 mm ² - T5	16 A
Temperature class	T4, T5, T6
Type of mounting	Wall mounting
Earthing inside	M6x10 earthing studs integrated in the cover, stainless steel
Cover attachment	Hexagonal slothead screws SW10
Cover screw torque	2.5 Nm
Earthing torque	7.5 Nm
Earthing outside	M6 earthing studs, stainless steel
Approvals	IECEx ITA 14.0013X TUEV14ATEX7606X MARITREG 15.40082.250
Identification	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIC T80/100 °C Db
Mounting feet	2 welded-on mounting feet with 8 mm holes



Number of built-in components	Emergency stop pushbutton	Key switch	Pushbutton		Illuminated push button		Light module		Dimensions with built-in components WxHxD in mm	Designation	Cable gland	Order number	
			red	green	red	green	red	green					
•	1								120x150x119	KLIPPON CS STB 1-1	VG M20	1537200000	
•				1					120x150x94.6	KLIPPON CS STB 1-1	VG M20	1537210000	
•		1							120x120x111	KLIPPON CS STB 1-1	VG M20	1537220000	
•						1			120x150x96.3	KLIPPON CS STB 1-1	VG M20	1537230000	
•	1								120x153.35x118.95	KLIPPON CS STB 1-2	VG M25	1537240000	
•				1					120x153.4x94.6	KLIPPON CS STB 1-2	VG M25	1537250000	
•		1							120x120x111	KLIPPON CS STB 1-2	VG M25	1537280000	
•						1			120x153.35x96.3	KLIPPON CS STB 1-2	VG M25	1537290000	
•			1	1					150x223.35x94.6	KLIPPON CS STB 2.1-2	VG M25	1537300000	
•					1			1	150x223.35x103.2	KLIPPON CS STB 2.1-2	VG M25	1537310000	
•	1							1	150x223.35x118.95	KLIPPON CS STB 2.1-2	VG M25	1537320000	
•			1	2					150x223.35x94.6	KLIPPON CS STB 2.1-6	VG M25	1537330000	
•			1	1		1			150x223.35x103.2	KLIPPON CS STB 2.1-7	VG M25	1537340000	
•	1		1	1					150x220x118.95	KLIPPON CS STB 2.1-7	VG M20	1537370000	

Stainless steel

Reliable stability for all applications

Klippon® Protect – convincing with impact-resistant aluminium enclosures

Aluminium enclosures (Klippon® K) can be used with a wide range of applications and are ideally suited for the assembly of terminal blocks, switches, power supplies, operating and display elements or electronic modules. Available in aluminium alloy and powder coated RAL 7001. The mounting holes are located outside the sealing area, while a corresponding thread enables mounting rails and mounting plates to be affixed.

Additional features:

- Standardised enclosure with integrated threaded holes
- Cover attachment with corrosion-resistant Torx slothead screws
- Fastening by means of mounting feet or internal mounting holes
- Splice-free seals for optimum ingress protection up to IP 66



Technical data

	Aluminium
Material	Aluminium alloy (AL-Si12)
Surface finish	Powder-coated
Colour	RAL 7001
IP protection class	IP 54; IP 66
Ambient temperature	-55 °C to 55 °C
Seal material of enclosure	Silicone (VMQ)
Seal material of command and signalling units	EPDM
Flammability rating	-
Impact resistance IK	7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module
Cable gland material	Nickel-plated brass
Cable gland clamping area min. - max. in mm	
M20	3-12 mm
M25	10-18 mm
Max. rated cross-section	2.5 mm ²
Max. operating voltage with integrated illuminated pushbutton or light module	400 V 250 V
Maximum operating current at 40 °C ambient temperature	
1.5 mm ² - T6	10 A
1.5 mm ² - T5	16 A
2.5 mm ² - T6	16 A
Maximum operating current at 55 °C ambient temperature	
1.5 mm ² - T4	16 A
1.5 mm ² - T5	10 A
2.5 mm ² - T5	16 A
Temperature class	T4, T5, T6
Type of mounting	Wall mounting
Earthing inside	Earth terminal
Cover attachment	Torx® 20 slothead screws
Cover screw torque	2.5 Nm
Earthing torque	2.5 Nm
Earthing outside	M4 earthing studs, stainless steel
Approvals	IECEXITA14.0013X TUEV14ATEX7606X MARITREG 15.40082.250
Identification	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIC T80/100 °C Db
Mounting feet	9527590000



Number of built-in components	Emergency stop pushbutton	Key switch	Pushbutton		Illuminated pushbutton		Light module		Dimensions with built-in components WxHxD in mm	Designation	Cable gland	Order number	
			red	green	red	green	red	green					
•	1	I - 0 - II							120x148.81x118.45	KLIPPON CS K41-1	VG M20	1537470000	
•			1						120x148.81x94.1	KLIPPON CS K41-1	VG M20	1537480000	
•		1							120x122x117	KLIPPON CS K41-1	VG M20	1537490000	
•						1			120x148.81x95.8	KLIPPON CS K41-1	VG M20	1537500000	
•			1	1					120x152.21x94.1	KLIPPON CS K41-4	VG M25	1537510000	
•				1			1		120x152.21x102.7	KLIPPON CS K41-4	VG M25	1537520000	
•	1							1	120x152.21x118.45	KLIPPON CS K41-4	VG M25	1537530000	
			1	1				1	120x250.21x102.7	KLIPPON CS K51-2	VG M25	1537540000	
			1	2					120x250.21x94.1	KLIPPON CS K51-2	VG M25	1537550000	
	1		1	1					120x250.21x118.45	KLIPPON CS K51-2	VG M25	1537570000	
			1	1				1 1	120x250.21x102.7	KLIPPON CS K51-4	VG M25	1537580000	

Aluminium

Robust solutions for demanding environments

Klippon® Protect provides high-quality polyester enclosures

Our enclosures made of high-quality polyester (Klippon® POK) are the ideal solutions for demanding electrical connectivity applications. They are particularly suitable for applications that demand corrosion resistance, impact resistance and a high protection class. Suitable for use within hazardous environments.

Additional features:

- Extremely robust, weather-proof and impact-resistant up to 7 joules
- Simple fastening of mounting rails
- High ingress protection IP66



Technical data

Polyester enclosures	
Material	Glass-fibre reinforced polyester with graphite mixture
Surface finish	Natural, black
Colour	Similar to RAL 9011
IP protection class	IP 54; IP 66
Ambient temperature	-55 °C to 55 °C
Seal material of enclosure	Silicone (VMQ)
Seal material of command and signalling units	EPDM
Flammability rating	-
Impact resistance IK	7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module
Cable gland material	Polyamide
Cable gland clamping area min. - max. in mm	Available on request
M20	6-12 mm
M25	2.5 mm ²
Max. rated cross-section	400 V
Max. operating voltage with integrated illuminated pushbutton or lighting module	250 V
Maximum operating current at 40 °C ambient temperature	
1.5 mm ² - T6	10 A
1.5 mm ² - T5	16 A
2.5 mm ² - T6	16 A
Maximum operating current at 55 °C ambient temperature	
1.5 mm ² - T4	16 A
1.5 mm ² - T5	10 A
2.5 mm ² - T5	16 A
Temperature class	T4, T5, T6
Type of mounting	Wall mounting
Earthing inside	Earth terminal
Cover attachment	Crosshead screws, stainless steel
Cover screw torque	2.5-3.0 Nm
Earthing torque	-
Earthing outside	Available on request
Approvals	IECEXITA14.0013X TUEV14ATEX7606X MARITREG 15.40082.250
Identification	2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb 2D Ex t IIC T80/100 °C Db
Mounting feet	9510910000



Number of built-in components	Emergency stop pushbutton	Key switch	Pushbutton		Illuminated pushbutton		Light module		Dimensions with built-in components WxHxD in mm	Designation	Cable gland	Order number	
			red	green	red	green	red	green					
•	1	I - 0 - II							120x152.14x127.45	KLIPPON CS POK 121209-2	VG M25	1537070000	
•				1					120x152.14x103.1	KLIPPON CS POK 121209-2	VG M25	1537080000	
•		1							120x122x126	KLIPPON CS POK 121209-2	VG M25	1537090000	
•						1			120x152.14x104.8	KLIPPON CS POK 121209-2	VG M25	1537100000	
•			1	1					120x152.14x103.1	KLIPPON CS POK 121209-4	VG M25	1537110000	
•				1			1		120x152.14x111.7	KLIPPON CS POK 121209-4	VG M25	1537120000	
•	1						1		120x152.14x127.45	KLIPPON CS POK 121209-4	VG M25	1537130000	
•			1	1				1	120x250.14x111.7	KLIPPON CS POK 122209-2	VG M25	1537140000	
•			1	2					120x250.14x103.1	KLIPPON CS POK 122209-2	VG M25	1537150000	
•	1		1	1					120x250.14x127.45	KLIPPON CS POK 122209-2	VG M25	1537170000	
•			1	1			1	1	120x250.14x111.7	KLIPPON CS POK 122209-4	VG M25	1537180000	

Polyester

You have a special request

We'll take care of it for you

Project solutions from a single source

From Weidmüller, you can order your command and signalling units as well as distributor and control enclosures as a complete solution from a single source. Tailored exactly to the individual requirements of your projects and surroundings and always with optimum quality and reliability.



Customised assembly

We can supply you with a large variety of standard enclosures quickly and easily from stock. We are also able to offer customised enclosure solutions, completely developed and produced according to your requirements. For maximum flexibility in your projects.



International certificates

All Weidmüller enclosures are specifically designed to meet the changing and extremely harsh demands of industry. Certified according to international standards, they also comply with the new ATEX and IECEx guidelines for hazardous areas. Depending on the type of application, they may have further approvals for use in standard industrial applications such as cULus, Germanischer Lloyd, Lloyds Register, EAC, AEx, INMETRO, NEPSI and Russian Maritime Register.



Reliable delivery

Regardless of whether you opt for a standard enclosure or an individually assembled solution, we will make sure that the delivery quantities you require are shipped to you as quickly as possible. We have ready-assembled modules available for further processing, which means we can produce control solutions adapted to your application at short notice – even in larger quantities of 1,000 units and more.



Weidmüller – Your Partner in Industrial Connectivity

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 Industrial Connectivity.

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