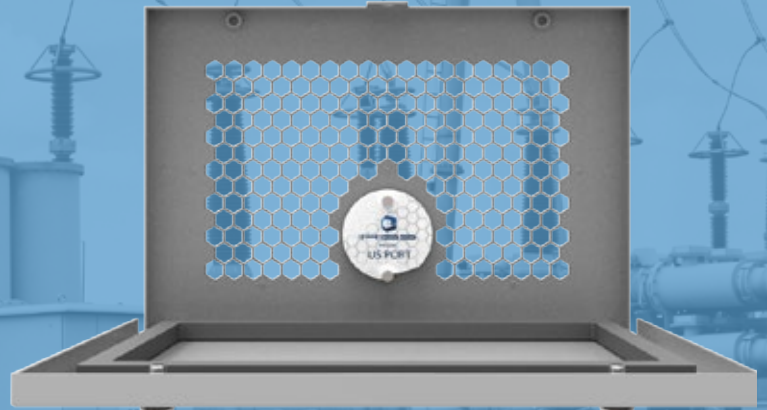# CAP-ENV-PD Series

The Toughest and Most Reliable Infrared and Ultrasound Window

Look & Listen Simultaneously

The built-in Ultrasound Inspection port in the CAP-ENV PD can be used to detect signs of arcing, tracking, and corona in electrical equipment. with minimal Diffraction and are more effective than scanning the seam on enclosed systems.

Arc Containment Tested

The CAP-ENV-PD Series was successfully tested to the IEC 62271-200 standard for arc containment on metal enclosed switchgear assemblies.

UL Listed

Having passed rigorous standards and testing, our inspection windows are UL Listed (E491496). This demonstrates our dedication to continued safety and security in the ever-changing world of electrical power and distribution.

The CAP-ENV-PD features a reinforced environmentally sealed door design while also providing a large visually-clear infrared (IR) transmissive viewing area. The CAP-ENV-PD also comes equipped with a versatile port for ultrasound inspections – an ideal way to identify electrical faults. Initially developed for MV transformer and switchgear applications, the CAP-ENV-PD is a perfect combination solution for medium and high voltage applications where both IR and Ultrasound inspections are desired.

Specifications

Model	CAP-ENV-PD-12	CAP-ENV-PD-18	CAP-ENV-PD-24
General Specifications			
Overall Height	20.6 cm (8.1 in)	22.8 cm (9 in)	21.8 cm (8.6 in)
Overall Width	30.5 cm (12.0 in)	46.5 cm (18.3 in)	61 cm (24.0 in)
IP/ NEMA Environment Rating	IP67 / NEMA 6		
Operating Temperature	-40°C (-40°F) to 273°C (523°F)		
Body Material	Powder Coated Stainless Steel		
Gasket Material	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)		
Hardware Material	316 Stainless Steel		
Voltage Range	Any		
Automatically Grounded	Yes		
Optic Specifications			
Viewing Aperture Height	12.7 cm (5.0 in)	14 cm (5.5 in)	15 cm (5.9 in)
Viewing Aperture Width	23.6 cm (9.3 in)	39 cm (15.4 in)	53 cm (20.9 in)
Optic Material	Poly-View™ UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)		
Optic Reinforcing Grill Material	Stainless Steel Reinforcing Grill (IP22/ IP2x Standard)		
Inspection Capabilities and Applications			
Midwave IR and Longwave IR; Ultraviolet (UV); Ultrasound; Visual Inspection; Medium/High Voltage Applications			
Certifications			
UL Listed (E491496)			
Certified by UL (USA) & cUL (Canada) to the following standards: 50V, 50E, 756C: Impact and Flammability, 746C & 746A-2012, 1558: Impact and Load Resistance, 508A: ANSI 508A			
CSA C22.2 No. 14-13, C22.2 No. 14-10, C22.2 No. 94-M91, C22.2 No.94.1-07, C22.2 No. 94.2-07			
Lloyds of London Type Approval			
American Bureau of Shipping (ABS)			
DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications			
IEEE C37 20.7 Type 2B, C37 20.2.a.3.6: Impact and Load			
IEC 62271-200, 60262271-200,60298 Appendix A, 60068-2-6:2007, 60068-2-3, 60068-2-78:2012			
Other			
Warranty	Unconditional Lifetime Warranty		

*Caution: These dimensions are not installation dimensions. Do NOT cut prior to receiving your IRISS IR window and installation template.
Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com

IRISS
ENGINEERED RELIABILITY

www.iriss.com