The CAP-4-US

A Multi-Technology Approach to Energized Electrical Inspections

The CAP-4-US infrared window equipped with a versatile port for ultrasound inspections is the ideal way to identify electrical faults. Industrial applications require solutions that meet numerous criteria where safety and performance are of the upmost importance. To accommodate this demand, IRISS took their transparent, CAP-CT-4 and added the benefits of ultrasound (US) inspection to the window. The award-winning, CAP-4-US comes equipped with a square 4" IR window and an US port both on one easy-to-install panel. The viewing area of the CAP-4-US offers a 30% increase in FOV over round windows but also provides a method for accessing quality acoustics data that easily identifies potentially hazardous faults such as arcing, tracking and corona in electrical distribution systems and switchgear.

Integrated Ultrasound Inspection Port

The built-in Ultrasound Inspection port in the CAP-4-US allows you to listen for airborne ultrasound to detect signs of arcing, tracking and corona in electrical equipment with minimal Diffraction. It is more effective than scanning the seam on enclosed systems and for hermetically sealed cabinets.

Fixed and Stable Transmission

The polymer IR window systems will maintain fixed and stable transmission (FAST) for the life of the installation ensuring that the temperature data collected through the IR window is accurate and reliable for the whole life of the installation.

Features

- Arc Containment Tested
- Durable and Rugged
- Poly-View™ Optic
- E Sentry Connect Asset Management
- Customizable
- Anti-Fogging Optic
- Unconditional Lifetime Warranty
- Proudly Made in the United States

Specifications

Model	CAP-CT-4-US
General Specifications	
NEMA Rating	IP65 / NEMA 4
Voltage Range	Any
Operating Temperature	-40°C (-40°F) to 273°C (523°F)
Body and Cover Material	Powder Coated 5052 Aluminum
Hardware	316 Stainless Steel
Gaskets	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Dimension and Optic Specifications	
Optic Material	UL 746 compliant, visual, UV and IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Optic Reinforcing Grill Material	Aluminum Reinforcing Grill (IP22/ IP2x Standard)
Viewing Aperture Dimensions	L= 9.68 cm (3.81 in), H= 9.77 cm (3.85 in)
Overall Dimensions	L= 15.24 cm (6 in), H= 25.4 cm (10 in)
Inspection Capabilities and Applications	
Midwave IR	Yes
Longwave IR	Yes
Ultraviolet (UV)	Yes
Ultrasound	Yes
Visual Inspection	Yes
Medium/High Voltage Applications	Yes
Other	
Warranty	Unconditional Lifetime Warranty

Certifications

UL & cUL Certifications:

- UL 50V & UL 50E
- UL 746C & UL 746A-2012
- UL 1558
- UL 508A/ ANSI 508A

CSA Certifications:

- CSA C22.2 No. 14-13
- CSA C22.2 No. 14-10
- CSA C22.2 N0. 94-M91
- CSA C22.2 N0. 94.1-07
- CSA C22.2 N0. 94.2-07

IEEE Certifications:

- IEEE C37.20.7 Type 2B
- IEEE C37 20.2.a.3.6

IEC Certifications:

- IEC 62271-200
- IEC 60262271-200
- IEC 60298 Appendix A
- IEC 60068-2-6:2007
- IEC 60068-2-3
- IEC 60068-2-78:2012

Other:

- IP65/NEMA 4
- American Bureau of Shipping (ABS)
- DNV P261.1E Maritime, Vessel and Offshore
- Lloyds of London Type Approval

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EMEA : +1 (941) 704-4445

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