The VPT Series

First and Only Round Transparent Polymer IR Window

An evolutionary step in infrared (IR) windows, the VPT Series utilizes our exclusive Poly-View System™ technology to allow the use of any thermography camera to monitor energized electrical equipment. The world's only clear polymer IR window optic enables visual inspections, traditional IR inspections utilizing cameras across the entire IR spectrum and allows for UV inspections to be performed with a corona camera. The VPT Series IR windows are industrial grade with a patented reinforced grill that exceeds high voltage switchgear viewing pane standards.

Poly-View™ Optics System

The VPT Series utilizes our exclusive Poly-View™ technology enabling visual inspections as well as traditional IR inspections across the entire Infrared spectrum. Ultraviolet (UV) inspection can also be performed via the Poly-View™ system.

Fixed and Stable Transmission

Polymer based infrared windows are unaffected by the environmental and mechanical stresses that degrade the transmission of crystal based IR windows which are fragile and hygroscopic (even when coated). 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
- Environmental Design
- Anti-Fogging Optic
- Unconditional Lifetime Warranty
- Proudly Made in the United States

Specifications

Model	VPT-50	VPT-75	VPT-100
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	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F)to 273°C (523°F); aluminum cover		
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	5.1 cm (2.0 in) Ø	7.6 cm (3.0 in) Ø	10.2 cm (4.0 in) Ø
Overall Dimensions	9.1 cm (3.6 in) Ø	12.1 cm (4.8 in) Ø	15.1 cm (5.95 in) Ø
Overall Thickness	2.6 cm (1.0 in)	2.6 cm (1.0 in)	2.6 cm (1.0 in)
Inspection Capabilities and Applications			
Midwave IR	Yes		
Longwave IR	Yes		
Ultraviolet (UV)	Yes		
Visual Inspection	Yes		
Medium/High Voltage Applications	Yes		
Outdoor 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 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

IRISS

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