Ultrasound Ports

Keep energized electrical equipment closed during ultrasound inspection, and easily comply with OSHA, NFPA 70E, CSA Z462 and similar electrical safety mandates.

Closed-panel inspections eliminate inherently high-risk tasks, such as removing panels or opening hinged doors, making your work processes safer for personnel, plant assets and processes.

Ports provide direct line-of-site access to ultrasonic waves that are otherwise not accessible from equipment with tight seals.

Access the Inaccessible:

How does your facility perform ultrasound inspections on equipment that is tightly sealed or can no longer be opened while energized due to that equipment's voltage or incident energy rating? How does your facility inspect equipment protected by switched interlocks? Ultrasound ports provide safe access to "inaccessible" energized equipment.

Don't Compromise
GET TURTLE TOUGH!

❑ **Structural Integrity:**

- Body & cover machined from bar stock aluminum (stainless steel available)
- Port Opening Just ¼"ø

❑ **Broad Listening Area:**

- Conical Backend to Focus Ultrasound Waves
- Conical Front-end to Focus Data Collector
- Better than 45° Line-of-Sight

❑ **Accuracy:**

- Direct Line-of-Sight Access to Sources of Acoustic Emissions Yields Superior Data vs/ Reflected Data, or Data Filtered Through Seals

❑ **Safety:**

- Closed-Panel Inspection Eliminates High-Risk Tasks
- Use Ultrasound Ports to Troubleshoot Switchgear or Transformers *Prior to Opening* Enclosures to Ensure Absence of Electrical Discharges like Arcing, Corona and Tracking.

Analyze Better Data:

Turtle Tough Ultrasound Ports feature a conical backend to capture and focus ultrasonic waves from broad angles within the equipment. Conical front-end allows for the technician to angle data-collection cones for line-of-site aim through the port of over 45° for direct access to most components in switchgear.

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TURTLE TOUGH Series Ultrasound Ports

	TTUP-A-25-H-X	TTUP-S-25-H-X
Material Specifications		
Body & Cover Material	Bar Stock Aluminum: Anodized & Powder Coated	Bar Stock Stainless Steel
Cover Screw*	¼-20 Captive Stainless Steel	
Hinge Hardware	Stainless Steel	
Gaskets	Neoprene	
Locking Nut (standard "Conduit Nut")	Zinc Plated Steel	
Dimension Specifications (nom.)		
Body and Cover (L x H)	2.0 in x 2.0 in (50 mm) x (50 mm)	
Total Width (Body + Cover)	0.9 in (23 mm)	
Cover Thickness	0.4 in (10 mm)	
Aperture Dimension	0.25 in diam (6 mm diam)	
Standards / Testing		
UL 508 / 508A	Compliant	
NEMA Environmental Rating	NEMA 4X (Closed); NEMA 1 (Open)	
Ingress Protection (IP)	IP65 (Closed); IP20 (Open)	
General		
Voltage Range	Low, Medium & High	
Grounding	Automatically grounds when mounted to grounded panel/door	
Installation	1/2" Punch or Bit	
Lifetime Warranty	Unconditional for Materials & Workmanship	
Country of Origin	**Proudly Made in the USA**	

**Standard Cover Screw Type: Allen Head (Hex Socket). Other options available.*

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