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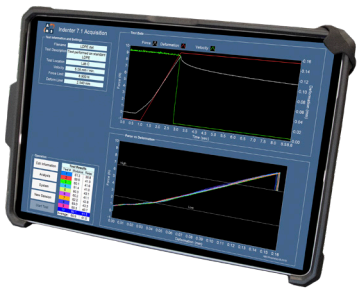
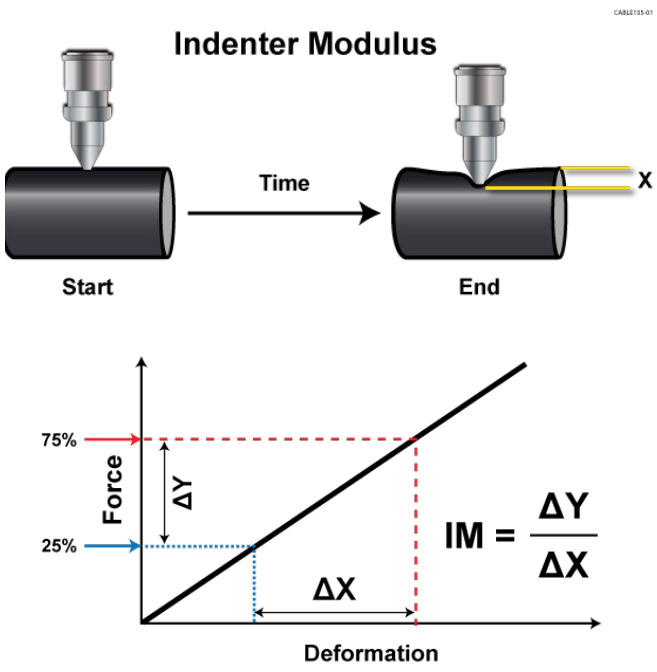
Indenter For Cable Condition Monitoring

AMS Model IPAM5

The Indenter Polymer Aging Monitor (IPAM) measures cable degradation caused by aging using a non-destructive cable clamp assembly.

The Indenter Polymer Aging Monitor (IPAM) measures cable-degradation caused by aging. The IPAM uses a non-destructive clamp assembly to measure the indenter modulus of a cable's jacket or insulation material. The IPAM cable indenter can accurately evaluate the aged condition of a cable in under a minute, and its user-friendly software makes it easy for technicians and engineers to collect and analyze data on a wide variety of cable types and sizes. With IPAM, nuclear professionals can gather important information about the condition of critical cable systems and support Plant Life Extension (PLEX) programs.





Capabilities

- Compatible with all Windows 10 Computers
- Non-destructive Mechanical Cable Insulation Test
- Portable
- User-friendly Software to Collect and Analyze Data
- Portable Battery Operated and also Includes an AC/DC Power Supplies
- Each Test Completed in Less Than One Minute
- Performs Testing on a Wide Variety of Cable Types and Sizes
- Includes Hardware and Software for Easy System Calibration and Field Calibration Checks

10CFR50 Appendix B Program

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System Includes:

- Cable clamp assembly (CCA) with 5 foot control cable (1.5 meters)
- Indenter Data Acquisition Box (DAQ) with swappable Lithium Ion
- Windows 10 Tablet User Interface
- USB cable from Main Control Unit to laptop or tablet
- Belt holster for complete portable system
- Force and displacement calibration kit
- AC/DC power supplies with AC power cord for both tablet and DA Unit
- Data analysis tools integrated into tablet
- Operation manual
- External Battery charger
- Portable storage cases
- Indenter software runs on tablet or laptop

Tablet Specifications:

- Standard 10” 10 point display touchscreen (10:16 1280x800 IPS)
- CPU Intel Baytrail-T (Quad-core), Z3735F @ 1.33-1.8GHz
- Ram 2G DDR3L
- Flash 64GB
- Wi-Fi 802.11
- GPS
- Camera: Front 2.0 MP, Rear 5.0 MP AF
- Battery: 3.7V/8000mAH Lithium Ion
- Handstrap for one hand operation
- MicroSD Card: Support SDHC/SDXC
- USB A and C Ports

Technical Specifications:

Clamp Assembly	
Weight:	3.5 lbs. (1.6 Kg)
Size:	1-3/4” x 1-7/8” x 10-1/4” (44.5mm x 45.3mm x 260.4mm)
Main Control Unit *(including battery)*	
Weight:	2.3 lbs. (1 Kg)
Size:	4-1/4” x 6-1/2” x 1-3/4” (108mm x 165mm x 44.5mm)
External AC/DC Power	
Weight:	10 oz. (0.3 Kg) (with cords)
Size:	2” x 1-3/8” x 4” (52 mm 34.9mm x 101.6 mm)
Probe Speed:	0.2 in/min (5.08 mm/min) at +/- 5% speed regulation
Force Sensor Range:	User adjustable up to 2 lbf (8.9 N) with IM typically calculated between 0.38 lbf (1.67 N) and 1.5 lbf (6.7 N).
Wire Clamping Range:	0.125” (3.26mm) to 2.0 in (50.8mm)
Force Range:	Adjustable 0-10 lbf. (0 - 8.9 N). Factory setting is limited at 2 lbf. (0.67 N)
Battery Operation:	Approximately 8 hours dependent on number of tests taken (limited by tablet/laptop battery life). 7.2V/5200mAH Lithium Ion

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