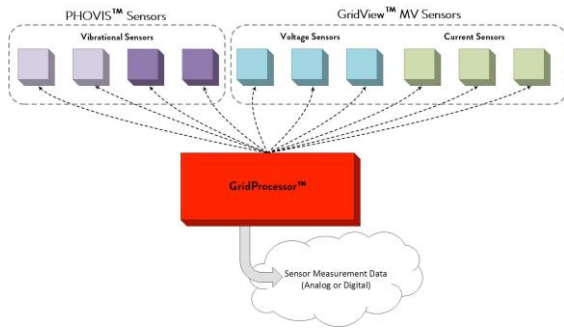


WHY OPTICAL SENSORS ARE CONSIDERED THE NEXT GENERATION SOLUTION



Micatu's photonic condition monitoring provides a flexible and configurable architecture for monitoring voltage, current and vibration or any combination.

Performance Specifications

GridView™ MV Sensor Accuracy

Accuracy/Harmonics	±0.5% to 50 th Harmonic
Phase Angle	Within ±1.0°
Sampling Freq/Freq	15 KHz/1.5Hz to 4.5KHz
Measurement Range	7.25kV to 35kV

PHOVIS™ Vibrational Sensor Performance

Sensitivity (V/g)	8
Residual Noise (V)	2.00E-04
Min /Max g	2.5E-04 / 50
Operating Frequency (Hz)	DC to 2500

Grid Processor™ Operating Conditions

Storage Temperature [C(F)]	-40 (-40) to +80(176)
Operating Temp [C(F)]	-30 (-22) to +70(+158)
Supported Frequencies	50 Hz & 60 Hz
Battery Life	6 hour

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PHOTONIC SOLUTIONS FOR RELIABLE POWER SOLUTIONS



The Micatu GridView System: A Single Platform Solution For Reliable Power Generation, Transmission And Distribution



1: The PHOVIS™ Vibration Sensor

A highly accurate, optical-based sensor solution for monitoring vibration, acceleration, vector and displacement. Based on Micatu's patented technology, PHOVIS™ is a revolutionary and a completely optical approach to physical measurement.

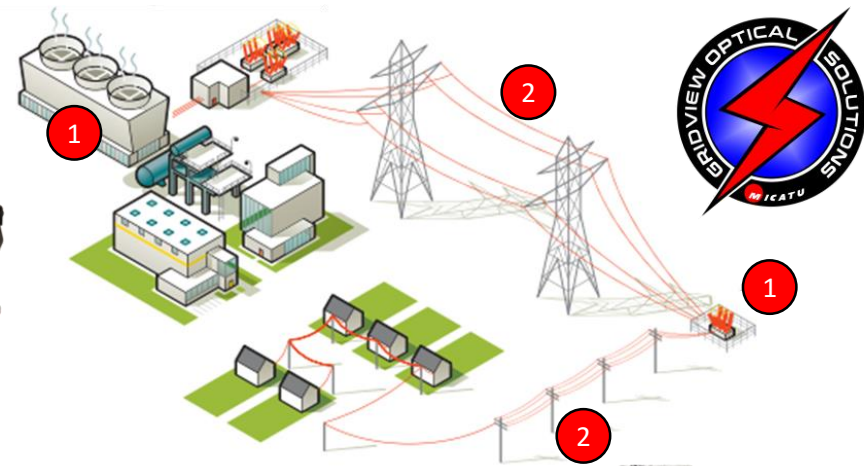
- ✓ Measures displacement and derivatives
- ✓ High low frequency accuracy and precision
- ✓ Supports harsh environments with high reliability
- ✓ Immune to electromagnetic/RF interference & passive (no electronics/moving parts in the sensor)
- ✓ Measures rotational equipment, transformers and wind turbines



2: The GridView™ MV Sensor

An all-optical design that gives "best in class" measurement precision of MV power grid distribution systems. In the presence of voltage or current, the GridView Sensor can determine both voltage and current with extremely high levels of accuracy. This has several distinct advantages over traditional technologies:

- ✓ Completely passive measurement of voltage and current
- ✓ Supports voltage measurement to 50th harmonics and transient events with no saturation
- ✓ Supports MV (7.2kV to 35kV) current and voltage measurements (3 Phases per set, includes both current and voltage)
- ✓ Hot Stick Mountable on Power Line



Grid Processor™

The brains of the GridView™ Advanced Monitoring System. The Grid Processor™ samples the return light from the GridView MV Sensor™ and/or PHOVIS™ sensor to determine voltage, current or vibration measurements. This information is converted digitally through DNP3.0 or MODBUS and transmits digital information through an Ethernet connected radio into a Utility's DA network for SCADA or other communication protocols. The Grid Processor also supports low or high voltage (120 volts) analog metering connections.