QUALITY CONTROL BUILT-IN

The Event Monitor enables users of the 8000 Series to measure each assembly's energy absorption for performance monitoring purposes.

All Metrosil de-excitation assemblies are tested to their full energy rating by our High Energy Test Laboratory (HETL), which establishes their performance ratings prior to dispatch. The results are detailed within a test certificate that ships with the assembly. During testing, the energy profile of the assembly is also recorded, allowing users to compare the energy absorption of a varistor assembly with its original profile at any given point in time. This enables users to ascertain whether or not performance has changed and if action is required.

**METROSIL EVENT MONITOR FEATURES:**
- Optional hardware for the Metrosil 8000 Series
- Retrofittable option for installed 8000 Series assemblies
- Fibre optic interface between assemblies
- MODBUS TCP Ethernet connection
- Networks up to 32 Metrosil assemblies per generator
- 24 Volt DC operation (user supplied)

**METROSIL EVENT MONITOR BENEFITS:**
- Assures assemblies are performing to specification
- Records energy events
- Compares events between discharges
- References HETL test results
- Enables users to log events over time
- Alarm outputs to four possible pre-set states
**Event Monitor Network**

For each generator, up to 32 de-excitation assemblies form an Event Monitor network, which is self-configured, such that each Metrosil 8000 Series assembly appears to the MODBUS TCP interface as a sequential assembly starting at address 1. Therefore, in a multi-assembly varistor system, each assembly’s address corresponds to its physical position on the fibre optic network.

**Alarm Data Mode**

The Event Monitor system examines each value read, compares it to the original HETL value, and then evaluates it against a pre-set alarm level. The pre-set levels are:

- **0** Non-functional - Event Monitor is not functioning or is installed incorrectly
- **1** Functioning - no significant energy increase noted
- **2** Small event detected - used in maintenance testing (>5% energy increase)
- **3** Energy reached HETL profile value - investigate
- **4** Extreme temperature - investigate/contact M&I Materials

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**Scope of Supply**

**Event Monitor** – Compares 8000 Series profile to original HETL test profile

**Communication Module** – provides a MODBUS TCP IP Ethernet output

*Please Note: M&I Materials does not supply monitoring devices or software for data logging or visualisation purposes

For all our products, visualisation and data logging is the responsibility of the user.

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For more information surrounding the Event Monitor or the Metrosil 8000 Series, please contact the Metrosil team.

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