

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:

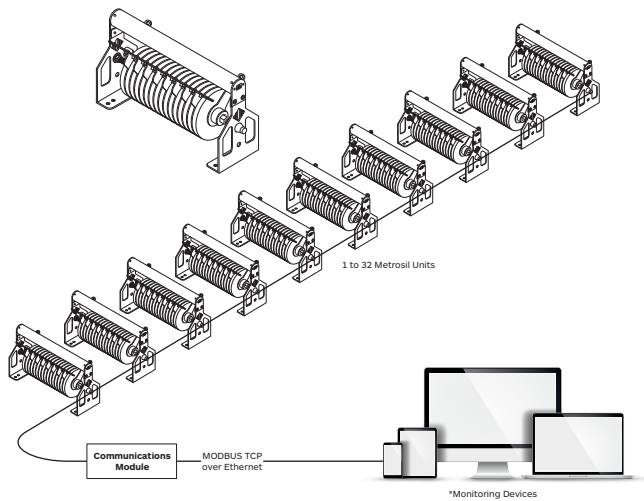
- Optional hardware for the Metrosil 8000 Series
- Retrofittable option for installed 8000 Series assemblies
- Fibre optic interface between assemblies
- MODBUS TCP Ethernet connection
- Networks up to 32 Metrosil assemblies per generator
- 24 Volt DC operation (user supplied)

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



METROSIL EVENT MONITOR



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

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

metrosil.com

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

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