Q: Can the TSM-900 be used to monitor non-Eaton legacy transfer switch equipment?
A: Yes. The TSM-900 is highly adaptable and is equipped with programmable inputs/outputs, allowing it to be field configured for use with a wide array of transfer switch products offered in the marketplace.

Q: Are there any specific mounting location requirements?
A: Ideally the TSM-900 should be mounted adjacent to the transfer switch equipment being monitored; however, this might not always be practical. When choosing a location, consideration should be given to where external control power (120 Vac or 24 Vdc) for the TSM-900 will be derived and how wiring will be routed for source voltage sensing, current transformers (load-side), inputs/outputs and communication.

Q: Is the TSM-900 UL® Listed?
A: Yes, it is listed to UL 508A (Standard for Industrial Control Panels).

Q: Are there any limitations in transfer switch voltage or amperage rating that the TSM-900 can monitor?
A: No. Both low voltage and medium voltage (external PT provided when selected options required) are supported. The maximum amperage rating is 5000 A provided that current transformers are sized for a 0–5 A output.

Q: Is electrical wiring ingress limited?
A: Yes. Electrical wiring can be routed through the top, bottom or side of the enclosure; however, the internal component panel severely limits wire ingress at the rear.

Q: What standard enclosure types are available?
A: NEMA 1 and 3R. The NEMA 1 type includes four holes at the enclosure rear (internal mount), allowing for quick and easy installation to a vertical surface. Alternatively, NEMA 1 can be ordered with two flanges (external mount). The NEMA 3R type is only available with flanges (external mount).

Q: Is the TSM-900 front accessible during installation?
A: Yes. The installing contractor will have the ability to easily route and terminate incoming wires by opening the front door.

Q: What is the difference between the ATC-900 and the TSM-900?
A: The ATC-900 is an automatic transfer switch controller used to manage (monitor and control) the operation of an automatic transfer switch (ATS) and is typically mounted on the front door of an ATS assembly.

Q: What is the physical size?
A: The standard NEMA® 1 enclosure size is 16.71”W x 18.21”H x 10.22”D. A larger enclosure size is provided when selected options require additional space.

Q: What standard enclosure types are available?
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Q: Is the TSM-900 front accessible during installation?
A: Yes. The installing contractor will have the ability to easily route and terminate incoming wires by opening the front door.

Q: How does the TSM-900 communicate?
A: Serial communication is native to the design and supports the Modbus® RTU protocol. Ethernet communication (various protocols) is available as a configurable option.

Q: How does the TSM-900 differ from a power meter?
A: The TSM-900 was designed specifically to monitor transfer switch equipment and includes specialized functionality (e.g., advanced diagnostics, engine test, programmable I/O) in addition to power metering. This combination of features is unique in the industry and provides maximum retrofit flexibility.

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Q: Are current transformers included when the TSM-900 is ordered with integral load metering?
A: No. Current transformers (0–5 A output) must be ordered separately and should be sized according to the number and size of the transfer switch load conductors. Typically a split-core type is used for a retrofit.

Q: Are there mounting options available?
A: Yes. There are two mounting options available: internal and external. Internal mounting includes four holes at the rear of the enclosure and offers the smallest footprint. External mounting includes four holes located on flanges that extend from the top and bottom of the enclosure.

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