

Prime Technology
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PRIME TECHNOLOGY, LLC. INTRODUCES ENHANCED SUPERVISORY ALARM SYSTEM IN SUPPORT OF MIL-A-17196 SPECIFIED EQUIPMENT

The 8300 series introduces new technology to an old standard while providing a wide range of customizable and versatile features

Prime Technology, LLC of North Branford, CT introduces the model 8300 supervisory alarm system, in support of MIL-A-17196 specification. The 8300 is a monitoring and alarm device that meets all current specification requirements and offers several unique and substantial performance improvements to currently employed legacy technology. This advanced alarming device is already installed aboard multiple ships in the U.S. Naval fleet with no associated problems, failures, or repairs in over two years of continuous operation.

The model 8300 is unlike any current technology on the market in that it offers a single alarm in a small, space-saving package without cutting back on the advanced technology and features within the unit. Alarms currently employed on many ships can only be purchased and installed in 10, 20, 30, 40, channels with a minimum of 3 alarms. This is not only unnecessarily expensive because, many times, users are paying for more channels than they need, but these units also occupy a great deal of unnecessary space in already cramped quarters. For example, if an application existed, as they often do, where one (1) alarm was needed, (2) two alarms would not be used and (7) seven spaces would remain unoccupied, wasting valuable bulk head space. Prime Technology's goal in designing the 8300 was to fill this overlooked niche to provide a smaller, feature-packed yet cost effective single alarm function, with the option and flexibility of expanding up to four channels if needed.

Additionally, the 8300 offers two distinct features that go above and beyond the requirements of MIL-A-17196: a serial link via an RS485 digital communication port that allows for advanced alarm communication and an AC link, which can be utilized for external power sourcing. The Serial link allows for sophisticated communication between the 8300 alarm box and an external host. This option allows users to monitor the alarm system remotely, providing critical information regarding the status of the alarm. If, for instance, a 4-channel 8300 was alarming, the serial link would be able to relay to the user which channel was signaling and for what reason. The AC link is another convenient feature of the 8300 due to its ability to

power an external source. Therefore, rather than having to install another power source for miscellaneous equipment, the 115V AC power of the 8300 can be outsourced for added convenience and space-saving needs.

The 8300 offers a Remote Sensing Module (RMS) which allows for a wide range of user customization. The processor-based architecture of the 8300 is versatile as well and provides flexibility for future applications, thus vastly reducing logistical burdens and the need for spares. The alarm also has a built-in test mode and four distinct, user-selectable outputs, including internal audible alarm, 115V external alarm contact closures, and upper and lower alarm lights.

Prime Products • Prime Sensing • International Instruments

General Resistance • Shurite • Precision Timer

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Technical specifications of the model 8300 include:

- Voltage: 115 VAC
- Frequency: 60 HZ
- Current: 110 ma. (max)
- Digital I/O: RS232/422/485 and serial data transceiver (optional)
- Alarm outputs: (4) independently configurable
- Ambient temperature range (operating): 0° C to 50° C
- Ambient temperature range (storage): 0° C to 85° C
- Weight: 10 pounds (max)

Prime Technology, LLC, a privately-held company headquartered in North Branford, CT is a proprietary manufacturer of precision instruments and systems, serving the commercial, nuclear, and military marketplaces. The company's five divisions manufacture products ranging from intricate electromechanical assemblies to state-of-the-art electronics. Prime Technology is a vertical manufacturer with on-site machine shop, tool room, and molding facilities. These capabilities enable it to produce to stringent military specifications. The company maintains complete control of all critical processes required to produce to nuclear instrument and Mil-Spec.

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