New Supervisory Alarm System

in support of MIL-A-17196 specified equipment

Prime Technology has applied its many years of experience designing military qualified measurement and control equipment into supporting the requirements of MIL-A-17196, with the latest, most reliable technology.

The new **Model 8300** brings new technology to an old standard.

- Remote Sensing Module allows for a wide range user customization.
- Versatile processor based architecture provides flexibility for future applications.
- High level of customization reduces logistics burden and need for spares.
- Optional RS485 digital communication (not part of MIL-A-17196).
- Four distinct, user selectable outputs, including:
  - Internal audible alarm
  - 115V external alarm contact closures
  - Upper alarm light
  - Lower alarm light
- Built-in test mode

model 8300

ALARM STATE TABLE

Rotary Switch	Alarm Condition	Internal Audible Alarm	Ext Alarm Contact	Upper Light	Lower Light
Test	ON	ON	CLOSED	FLASHING	OFF
	OFF	ON	CLOSED	FLASHING	OFF
Normal	ON	ON	CLOSED	FLASHING	OFF
	OFF	OFF	OPEN	ON STEADY	OFF
	SUPERVISORY FAILURE	ON	OPEN	OFF	ON STEADY
Stand By	ON	OFF	OPEN	ON STEADY	ON STEADY
	OFF	ON	CLOSED	OFF	FLASHING
Cut-Out	ON	SILENT	OPEN	OFF	ON STEADY
	OFF	SILENT	OPEN	OFF	ON STEADY

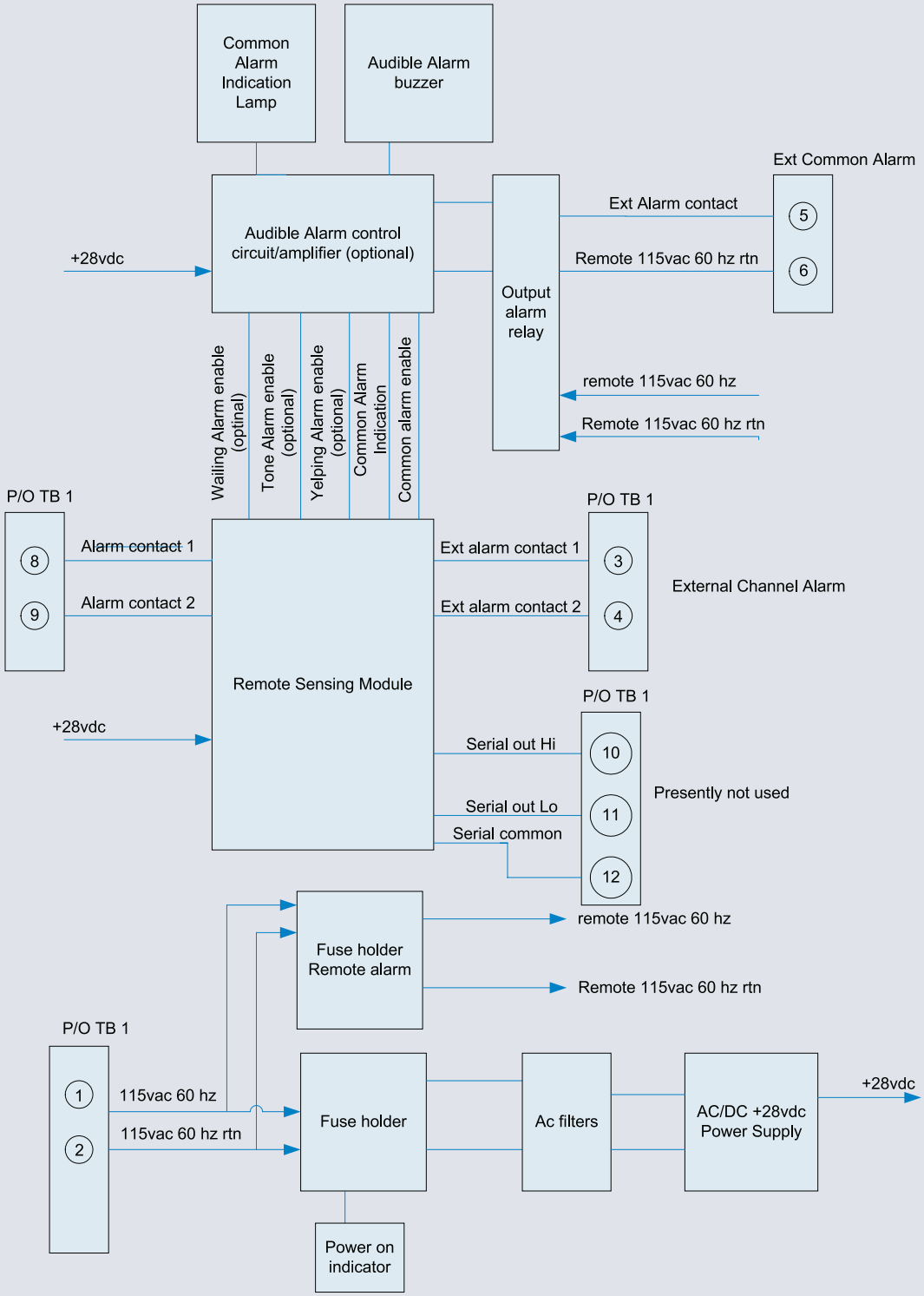
exclusive design from

PRIME TECHNOLOGY

Description

The Prime Technology Supervisory Alarm System **Model 8300** is designed to operate similarly to legacy MIL-A-17196 specified equipment. It meets the basic standard requirements and adds substantial performance improvements.

Supervisory Alarm System Functional Block Diagram



The system consists of a rugged, easily accessible Chassis Assembly which houses a Remote Sensing Module (RMS). The RMS processes the inputs from external contacts using processor based architecture, which makes it highly adaptable to user requirements. Four distinct outputs are available to communicate to users the condition of supervised systems.

The **Model 8300** is designed to allow for an optional serial communications circuit that can be made available for remote monitoring of the system. This serial link would be available via an RS485 digital communication port to an external host.

model 8300

Supervisory Alarm System

Technical Specifications

▪ GENERAL

Ambient Temperature Range

Storage	0°C - 85°C
Operating	0°C - 50°C

Input Power

Voltage	115 VAC
Frequency	60 HZ
Current	100 ma. (max.)

Digital I/O

RS232/422/485
Serial data transceiver

Alarm Outputs

(4) Independently Configurable

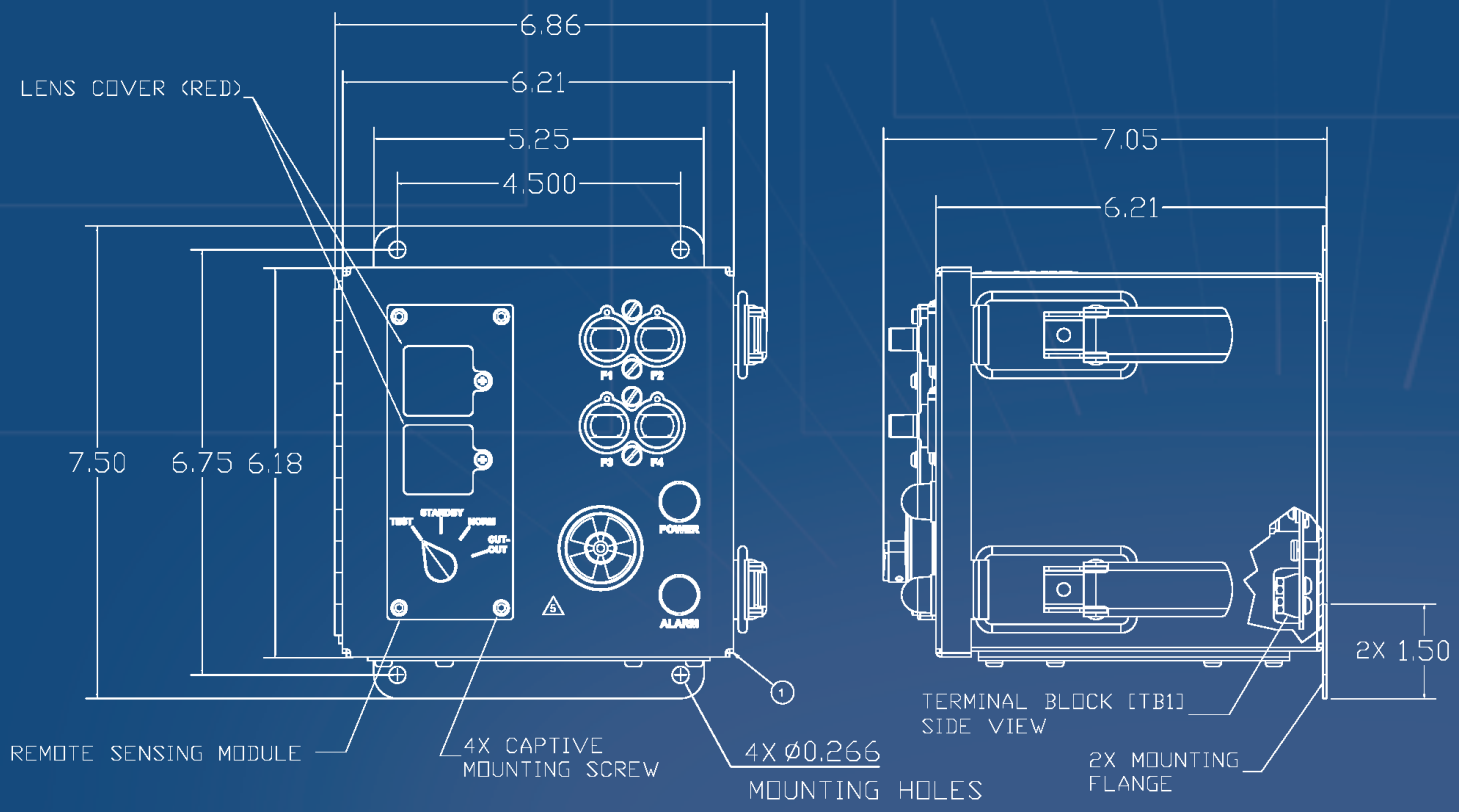
▪ PHYSICAL

Weight 10 lbs. (max.)

Qualified to MIL Standards

• Shock	MIL-S-901	Pending
• Vibration	MIL-STD-167	Pending
• Drip-Proof	MIL-STD-108	Pending
• EMI	MIL-STD-461	Pending

Dimensions (in.)



PRIME TECHNOLOGY

Prime Technology, LLC designs and manufactures electronic systems and provides engineering design services for measurement, display, communication and control equipment for various applications. Prime Technology has evolved from Tank Level Indication products into integrated systems with broad applications that combine our expertise in display, software and measurement technologies with our vertically integrated manufacturing capability.

Prime Technology, LLC has been servicing naval requirements for more than 40 years.

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