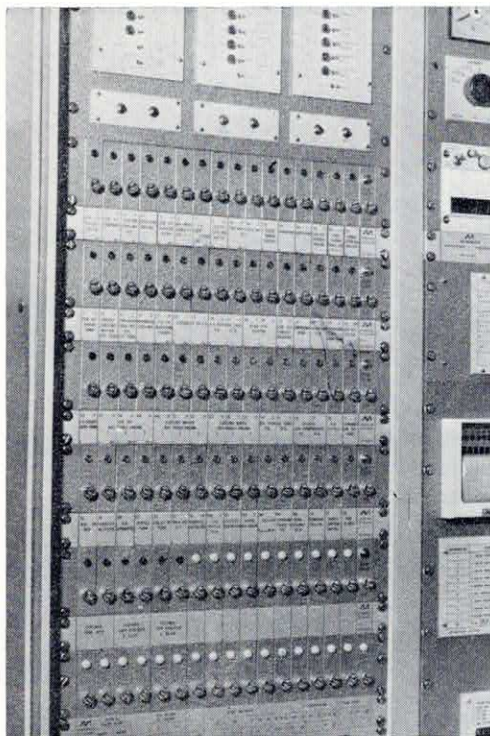


MONITOR + ALARM SYSTEM **series 1200 + 1300**



INTRODUCTION

The Manotherm monitoring and alarm system has been developed to meet many different demands in supervision and measurement aboard ships.

The most important features are:

- The system accepts contact transducers as well as analog transducers.
- Great freedom of choice concerning type of transducers.
- The design of the cabinets and/or panels is completely free and can always be made in accordance with customer's requirements.
- Special designed for a "0-man" or "one-man" watch system.
- All modules are plug-in types for easy service.

- The system is designed and made according to the highest standard of reliability. Modern electronic components, integrated circuits, metal film resistors and tantalum capacitors are used.
- By using high noise immunity logic, not sensitive to abnormal environmental conditions such as supply voltage variation, ambient temperature variations and inducted switching spikes on sensor lines.
- All modules are placed in a standard frame suitable for mounting in a 19" cabinet based on international standard.

Technical Data

- Power supply : 24 Volt DC (18 to 30 max.)
Consumption each point \pm 2 watts
- Ambient temperature : Max. 70° C
- Flasher : 80 per minute
- Relative humidity : Up to 90%
- Measuring ranges : On request
- Cabinets : Standard 19" panel mounted or free standing
- Total accuracy : within 1 percent F.S.
- For further information ask for bulletin GD 1200-1300.

SBE-1200-1300
1976

CONSTRUCTION

The system consists of a number of modules which are "plug-in" in a frame for 19" cabinet.

Each frame can contain:

- One control panel for push-buttons, lights, indicators or other auxiliary controls.
- to a maximum of 16 modules.

SEQUENCE

The following sequence is standard for the 1200-1300 series:

- Auto reset, with lamp and horn memory.

CONTACT INPUT MODULES

Cable interruption will result in alarm.

N.C. contact input.

A 0,5 second time delay is standard for all modules.

Optional an adjustable time delay of 0-35 seconds by order.

All modules have an output for trip action and common alarm.

Horn memory and lamp memory are standard.

Each module has an input for test possibility and inhibit action.

ANALOG INPUT MODULES

This analog input module converts the input signal to an on-off (N.C.) signal which is connected to a contact input module.

By choice of components in the input matrix, many inputs from transducers are possible.

Each module has only a high alarm or a low alarm action.

An indicator can be connected directly to each module or via a selector switch on the front. Several of the 1300 series modules can be connected to one indicator.

