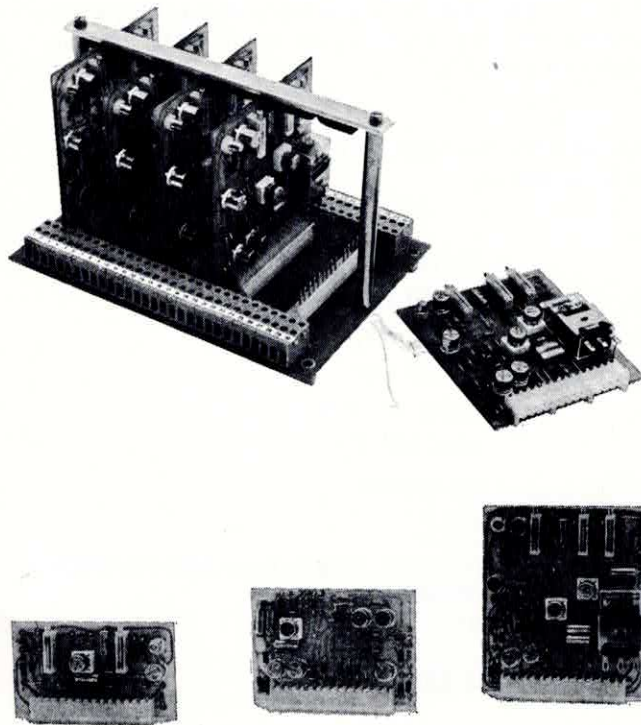


MONITOR + ALARM SYSTEM series 1600



INTRODUCTION

The Manotherm series 1600 is a universal system, composed of standard amplifier modules, for analog transducers as well as contact transducers, by which a great freedom of choice is concerned about type of transducers. By composing standard amplifier modules, a unit is created which can easily be mounted in all types of boxes, panels, etc. By using high noise immunity logic, these amplifier modules are not sensitive to abnormal environmental conditions such as supply voltage variations, ambient temperature variations and inducted peaks on sensor lines. 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. All the amplifier modules are plug-in types for easy service and placed on a standard base plate which can contain a maximum of 5 or 10 amplifier modules.

Contact input module (type 1603)

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.

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

Horn- and lamp memory is standard.

Analog input module (type 1600)

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

Reading of the measured value on request with an analog indicator or with a digital indicator.

SBE-1600
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Analog input module with alarm (type 1610 and 1620)

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

Reading of the measured value on request with an analog indicator or with a digital indicator.

Each module has only a high alarm (type 1620) or a low alarm (type 1610) action. The analog input module converts the input signal to an on-off (N.C.) signal which is connected to a contact input module.

Sequence

The following sequence is standard for the 1600 serie.
— auto reset, with lamp and horn memory.

SPECIFICATIONS

Power supply	: 24 Volt DC (18-30 Volt max.)
Consumption contact module	: \pm 750 mW
Consumption analog module	: \pm 50 mW
Consumption analog module with alarm:	\pm 750 mW
Total accuracy	: within 1% F.S.
Ambient temperature	: max. 70° C
Measuring ranges	: on request

Options:

Power supply 110 or 220 Volts AC to 24 Volts DC. (see bulletin SBE-PS7/PS250).

Temperature sensors (see bulletin SBE-3100/3800).

Pressure transmitters (see bulletin SBE-4000).

Indicators, digital or analog.

Testboxes (see bulletins SBE-8100 and SBE-8200).

Displays.

Horn.

Selector switch for indicating of several points on one indicator.

Cases, dimensions on request.

