

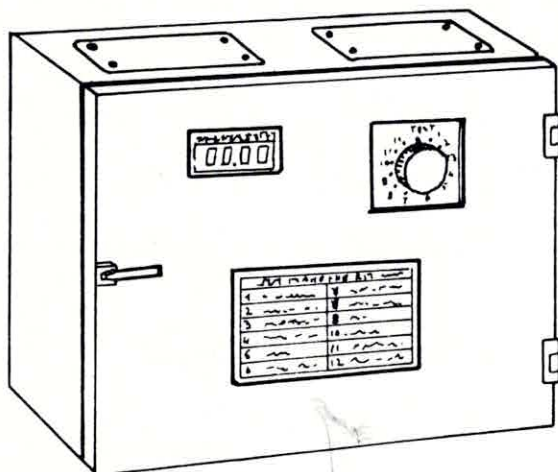
## SERIES 900

TEMPERATURE  
INDICATOR FOR:

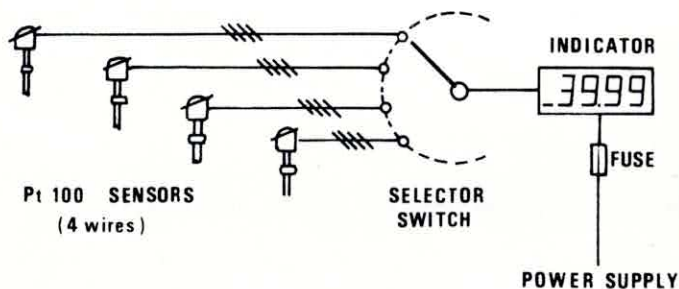
— REFRIGERATED  
CARGO HOLDS

Approved by  
Lloyd's Register  
of Shipping

under certificate  
no. 904183-1157



MODEL 910-12



### INTRODUCTION

The Manotherm High Accuracy Digital Temperature Indicator, series 900 is especially designed for measuring temperatures of refrigerated cargo and refrigerated cargo holds.

The temperature reading is accurate within the range  $+0,20^{\circ}\text{C}$  to  $-0,10^{\circ}\text{C}$  of the true temperature within the range  $-3^{\circ}\text{C}$  to  $+3^{\circ}\text{C}$ , provided approved type sensors (with accuracy of  $\pm 0,05^{\circ}\text{C}$  at  $0^{\circ}\text{C}$ ) are used.

This accuracy is according to the rules of Lloyd's Register of Shipping.

The sensor type for this system must be a four-wire platinum resistance element according to the higher tolerances of DIN 43760, for which our type 92 or equivalent can be used.

The digital indicator gives a very bright incandescent 7 segment gas-plasma display with 4 full decade digits.

Measuring value can be printed together with time and data.

## VARIOUS MODELS ARE AVAILABLE:

- 910-01 Single point indicator with separate amplifier.
- 910-12 Twelve point digital temperature indicator mounted in a standard light-metal grey painted case with the dimensions width 480 mm, height 360 mm, depth 150 mm.
- 910-25 Twentyfive points digital temperature indicator mounted as above, with the dimensions width 480 mm, height 460 mm, depth 150 mm.
- 920-12 Twelve points with an additional second indicator and selectorswitch.
- 920-25 Twentyfive points with an additional second indicator and selector-switch.

## SPECIFICATIONS

- Accuracy : within  $+0,20^{\circ}$  C to  $-0,10^{\circ}$  C of the true temperature in the range  $-3^{\circ}$  C to  $+3^{\circ}$  C, provided approved sensors (with accuracy of  $\pm 0,05^{\circ}$  C at  $0^{\circ}$  C) are used.
- Range :  $-30^{\circ}$  C to  $+30^{\circ}$  C.
- Power supply : 100, 117, 220 or 240 Volts AC  $\pm 10\%$ , 49 tot 63 Hz.
- Consumption : 2 Watt nominal.
- Ambient temp. :  $-10^{\circ}$  to  $+60^{\circ}$  C.
- Relative humidity: 0 to 90% non-condensing.
- Indicator : digital with 7 segment gas-plasma display of 4 full decade digits.
- PT 100 break  
Indication : all digits blanked, polarity and decimal point remain lighted.