

SMART Cargo Pump Temperature Monitoring System

In accordance to IMO, SOLAS Chapter II-2, Reg. 4.5.10.1.1

Features



- User-friendly SMART Type Touch Screen LCD display unit with multi-window display.
- Modbus Protocol / Outputs with RS485 provide cost-effective alternative to single-loop isolation.
- Using Programmable controllers PLC) for data polling, monitoring, alarm and tripping functions.
- Easy installation and maintenance
- Intrinsically Safe to BASEEFA
- Type/Class Approval by major classification societies

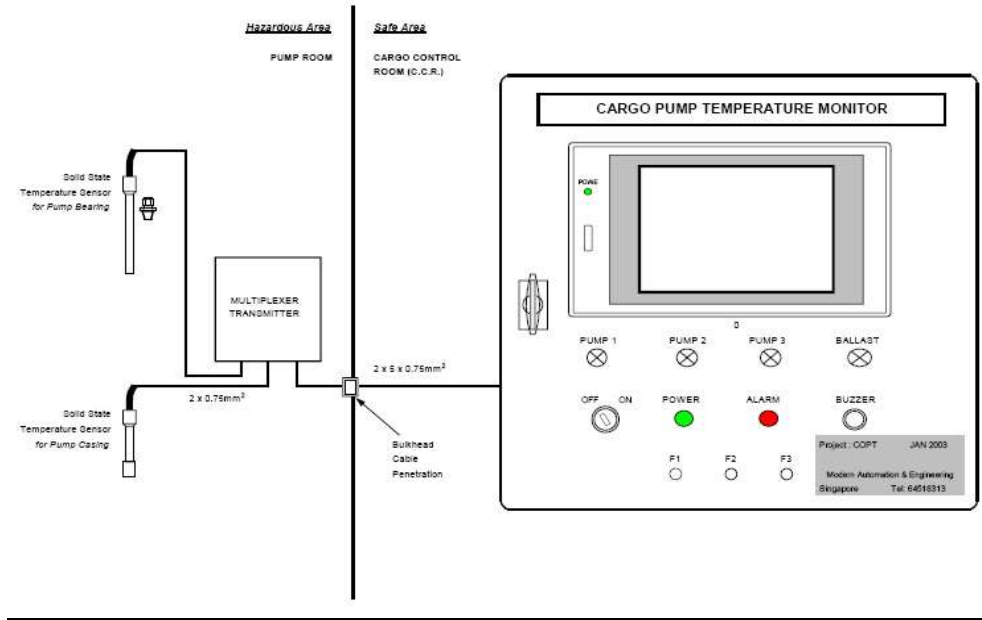
Principle of Operation

COPT Series – SMART Type temperature monitoring and alarming system is designed for continuous temperature monitoring and heat-producing equipment (ie. pumps). The temperature sensors used are robust type integer circuit transducer (2-wire system) with proven track record of more than 10 years. The sensors send its signals via the MODBUS protocol using RS485. The SMART LCD display unit works as a gateway to send data to the PLCs which function as alarm annunciation and pump tripping. When the temperature exceeds its High Alarm, the HI alarm and common buzzer will be activated. When the temperature exceeds the Trip Alarm temperature, Trip alarm lamp, trip relay and common buzzer will be activated. These temperature alarm points are customizable to customers' needs.

Application

COPT Series – SMART Type temperature monitoring and alarming system is designed for use in marine and offshore installations especially for pumps in the cargo pump room. Temperature monitoring and alarming in a hazardous location is necessary on heat-producing equipment so as to reduce the possibility of combustion.

TECHNICAL SPECIFICATION



Model	: Monitor panel: COPT
Sensing principle	: Solid State, Integrated circuit transducer
Measuring Range	: 0 – 100°C
Accuracy	: ±2 °C
Display	: SMART Touch Screen LCD display unit with multiple pages functioning as: <ul style="list-style-type: none"> ▪ Gateway for signal from temperature sensors ▪ Push button for individual pump reading and selection
Alarm level	: HIGH Alarm Level: 70 °C TRIP Alarm Level: 80 °C
Function	: Multiple pages on Touch Screen : Temperature indication and Location : Audio and Visual Alarm : External Trip Relay output
Operating Conditions	: Temperature sensor: -55 °C to 150 °C Monitor Panel: 5 °C to 55 °C (35 – 95% R.H)
Power Source	: AC110V or AC220V
Safety Approval	: Intrinsic Safety approval by BASEEFA
Material of process conn	: AISI 316 Stainless Steel
Connection Size	: Compression Fitting (DIA. ¼” by ½” NPT) Bolt Mounting (Max. 6mm)

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