

SMV-3000P/O/OP

VAPOUR EMISSION CONTROL SYSTEM (VECS)



SCANJET MACRON SMV-3000 series monitors oxygen content and/or pressure during loading operation of tank vessels.

In compliance with USCG 46 CFR Ch.1 subpart 39.20-13 as well as 39.40-3, SMV-3000 series can monitor any over or under pressurization or an oxygen level approaching 8% volume.

The system consists of one DETECTOR CABINET with EEx ia approved oxygen and pressure sensors mounted on deck nearby the vapour manifold and one ELECTRIC CABINET which has individual FND displays and alarm status LEDs and also I.S repeater mounted typically in the cargo control room.

KEY FEATURES

SMV-3000

Scanjet Macron SMV-3000 series are uniquely developed in order to comply with the latest high environmental requirement.

SMV-3000 covers Oxygen and Vapor Pressure



Technical Specification

Main Power Supply: 115/230V AC (50~60 Hz) Instrument Air Supply for Purge: 600~800 kPa
Protection Class of Detector Cabinet: : IP54 or IP56

Main Components in SMV-3000 series

Detector Cabinet

Oxygen Sensor

- ▶ Range: 0~25% Volume.
- ▶ Type: Electro-Chemical
- ▶ Output Signal: DC 4-20mA
- ▶ Pre-Set High Alarm: Above 8% Volume
- ▶ Calibration by N2 99.99 % bottle
- ▶ Repeatability: $\pm 2.0\%$ FSD

Pressure Transmitter

- ▶ Range: 0~25 kPa
- ▶ Output Signal: DC 4-20mA
- ▶ Pre-Set Alarms: High 12 kPa, Low 1 kPa
- ▶ Sensor Accuracy: $\pm 0.25\%$ of FS

Flow Fail Switch

- ▶ Magnetic reed switch type



Electric Cabinet

Alarm Display Unit , Programmability by switch

User can configure programmed parameters by key switch such as ALARM SET POINT & SENSOR SCALE

Intrinsically Safe Isolators : Pressure and Oxygen

- ▶ 1 or 2 channels I.S analog input for 2 wire loop powered
- ▶ Protection class: IP20
- ▶ Operating Condition: Temperature limits -20 to 60°C
- ▶ Certifications: ATEX, UL & C-UL, Russia and Ukraine, etc

Intrinsically Safe Isolators : Flow Fail Alarm Switch

- ▶ The Switch/Proximity Detector Repeater type
- ▶ Field Configurability: NO/NC input, NE/ND relay operation
- ▶ Protection class: IP20
- ▶ Operating Condition: Temperature limits -20 to 60°C
- ▶ Certifications: ATEX, UL & C-UL, Russia and Ukraine, etc

External Alarm Relay

- ▶ Power Failure
- ▶ Common alarm relay available



Scanjet Macron Co., Ltd.

#246-6, Dalsan-ri, Jeongwan-Myun,
Gijang-gun, Busan,
Korea

Phone: +82 (51) 711-3500
F a x : +82 (51) 711-3505
E-mail: info@macron.co.kr
W e b : www.scanjet.se