Seres OL Detector Pautbac II

Datasheet No. DenSOL59221100

Explosion-proof online system for the automatization of petroleum product storage tank dewatering. Reliable interface detection for oil in water. Automatic purge operation by user configuration or manual (semi-automatic) operation via push button operation. Remote operation through SNCC.

System consisting of detector, control cabinet and measuring chamber vessel:

Detector: 5 - 25 % range with adjustable alarm threshold.

Control cabinet (transmitter): Convenient operation via hardware buttons for easy menu navigation and semi-automatic purge starts, including an on-board emergency shutdown push button. 4 ATEX cable glands armed in nickeled brass for cable entry.

Measuring chamber vessel: Installed online with Teflon-coated capacitive probe inside, explosion-proof circulation chamber mounted on the tank draining pipework.

- ATEX certified explosion-proof: Cabinet: ATEX INERIS 15ATEX0010X Measuring chamber vessel: LCIE 04 ATEX 6073
- EAC certified explosion-proof: EAC Cert. No. RU C-FR.AЖ 58.B.01320/21
- Programmable functions: purging frequency, maximum purging duration, valve and purge line flushing, valve shutdown delay.



SUAN

Detector (incl. control cabi- net & measuring chamber)	Seres OL Pautbac II ATEX 5-25 % range	SOL-59.221.100
Configuration	30W heater in electronics cabinet	SOL-89.810.010
Configuration	Rainwater Configuration	on request
Configuration	Steel Frame SS316L not painted	SOL-89.620.010



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Water Detection

Capacitive probe

The probe measures the dielectric constant to detect the interface between oil and water.

Sensors/Measurement Equipment

Probe: Teflon-coated

Automatic effluent temperature compensation svstem

Heater in electronic cabinet (separately available configuration for an ambient temperature of -20°C)

Detector	Measuring range
Pautbac II	5-25 % with adjustable threshold

Specifications and Functionality

Power supply

110 or 230 VAC
50 or 60 Hz
30 VA

Operation Display:

Color and graphic LCD, 4.3", touchscreen, accessible menu with 3 front buttons

Display of process value, alarm status and time during operation.

Smart and intuitive interface based on separate menu sections: "Measurement", " Maintenance " and " Settings ".

User menus in English and French.

Password protection and storage of data records. Storage and graphical display of measurement history.

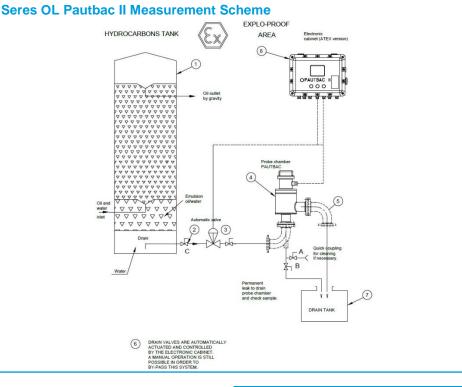
Alarm Relays

1 summary alarm for "analyzer failure"

Maximum load: 1A / 24 V

Relay Outputs

Valve control dry contact output (or 24VDC) Oil alarm (Threshold) dry contact output Failure alarm dry contact output 1A / 24 V Rated load:



Analyzer Data

Sample conditions

Inlet pressure_{Abs.} (25 °C):

Ambient conditions

Sample connections

Connection distances

Cabinet to control room

Measuring chamber vessel:

Cabinet to measuring chamber

Flange 4", PN20 (type ASA150) - DN100

Flow rate:

Temperature:

Outlet pressure:

Temperature:

Cabinet

Signal outputs

1 programmable signal outputs for measured values (freely scalable, linear).

Current loop:

Communication interface

RS485 interface (galvanically separated) with Modbus/JBUS RTU protocol included in standard.

Automatic draining	Programmable
Purging frequency	1-999 hours
Max. purging duration	1-999 min
Valve and purge line flushing	0-99 sec
Valve shutdown delay	0-99 sec

Semi-auto function for manual start of cycles.

Explosion-proof

Туре	
Cabinet:	ATEX INERIS

Code 15ATEX0010X, II 2GD, Ex d IIB + H2 T4 Gb

Measuring chamber vessel:

LCIE 04 ATEX 6073, II 2 G, Ex d IIC T6 Gb.

398 x 298 x 205 mm Dimensions: Weight: 35 kg Measuring chamber Dimensions: 425 x 700 x 275 mm Weight: 75 ka The valve and the cable between cabinet and

Complete System: EAC Cert.: No. RU C-FR.AX 58.B.01320/21. (1 Ex d IIC T6 Gb) measuring chamber vessel are not part of the standard scope of supply.

05/2022 Subject to changes without notice



5-30 m³/h

5 to 85 °C

0 to 50°C

max. 300m max. 800m (RS485)

up to 10 bar

pressure-free

0 or 4 - 20 mA