

Water & Hydrocarbons, a sphere of expertise at Seres.

What is the PAUTBAC II?

PAUTBAC II equipment is SERES environnement's **BEST SOLUTION** to automatize water drainage from oil storage tanks:

- ⇒ **Interface Detection Oil in Water**
 - Manual: launch by push button operator
 - Automatic by user configuration (by programming)
 - Remote control (SNCC)
- ⇒ **Using capacitive probe,**
- ⇒ **Simple** : installation & operation made easy
- ⇒ **Economical**: low capital & maintenance costs
- ⇒ **Flexible**: installation in safe or hazardous area

In petroleum products storage tanks: Oil refineries, slop



How?

Installation & measurement

- ⇒ A **teflon coated capacitive probe is inserted** in an explo-proof circulation chamber mounted in the tank draining pipework.
- ⇒ The **probe measures** the dielectric constant to detect the interface between oil & water.
- ⇒ The **control cabinet processes** the signals received from the probe and the safety alarms & controls the operation of the tank purge valve.

Why choose PAUTBAC II?

The PAUTBAC II applications & references encompass a variety of activities.

- ⇒ Improvement of tank nominal capacity
- ⇒ Compliance with HSE standards: traceability of purges (registration in local mode or control room)
- ⇒ Increased safety of purge operations
- ⇒ Risk reduction by manual intervention
- ⇒ Significant decrease of hydrocarbon loss
- ⇒ Prevention of bacterial contamination risk
- ⇒ Options & technical solutions (ATEX, IECEx)

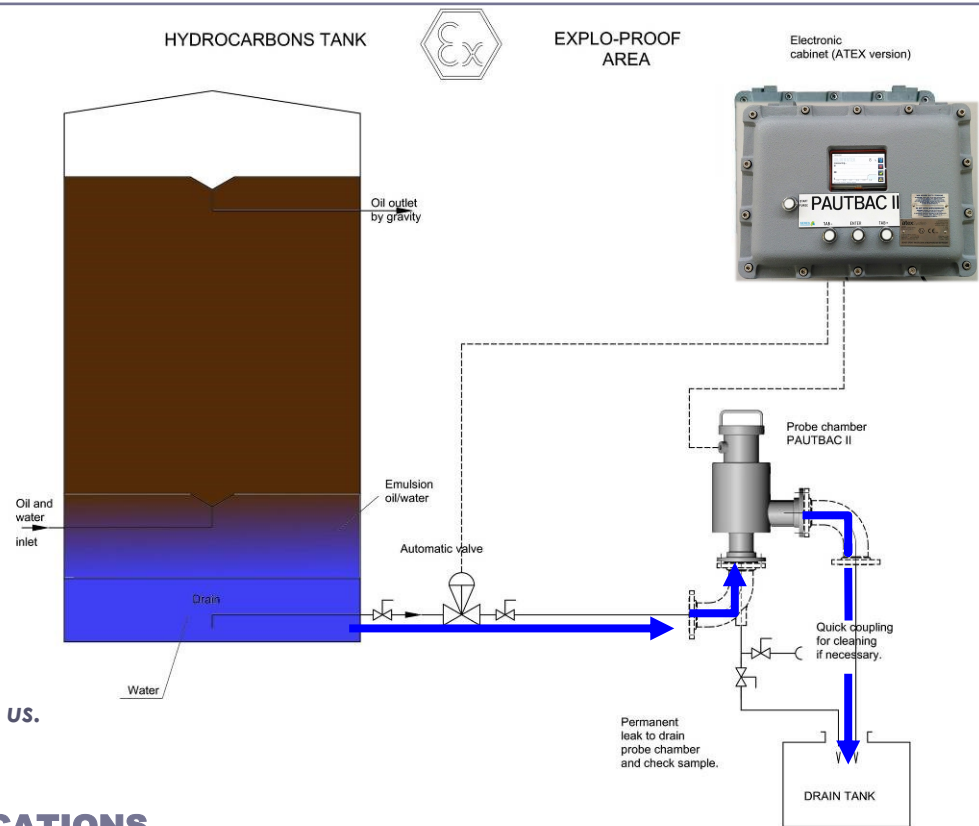
For floating roof tank

- ⇒ Hose integrity check without emptying the tray and without inspection

and more ...

- ◆ No maintenance
- ◆ No need to modify tanks
- ◆ Automatic and fully programmable system
- ◆ JBus
- ◆ Purge time counter
- ◆ Secured by managing the positioning of the valve
- ◆ Works with all hydrocarbons
- ◆ Adjustable threshold of 5 to 25%.
(Beyond on request)
- ◆ Color graphics and touch screen

SYSTEM OVERVIEW



For floating roof tank, consult us.

TECHNICAL SPECIFICATIONS

PRINCIPLE:	Capacitive probe.
RANGE & THRESHOLD:	5 to 25% with adjustable alarm threshold (originally factory set at 5%)
SAMPLE SUPPLY:	Temperature 5 - 85°C max - Pressure 10 bars max - Flow 5 - 80 m3/hr
AUTOMATIC DRAINING:	Automatic purging cycle must be programmed: <ul style="list-style-type: none"> ◆ Purging frequency : Programmable between 1 and 999 hours. ◆ Max. purging duration : Programmable between 1 and 999 min. ◆ Valve & Purge line flushing : Programmable between 0 and 99 sec. ◆ Valve shutdown delay : Programmable between 0 and 99 sec.
DISPLAY:	Colour Screen
OUTPUT CONTACT:	<ul style="list-style-type: none"> - Valve control dry contact output (or 24VDC) - Oil detection dry contact output. - General alarm dry contact output - Optional dry contact available on request (or 24VDC) - Buzzer control +24VDC (Buzzer in option)
OUTPUT SIGNAL:	4-20 mA (or 0-20 mA) oil content output signal
EMERGENCY STOP:	Emergency "punch button"
COMMUNICATION:	RS 485 / JBUS (I/O) RS232 only output
POWER SUPPLY:	110V-230 VAC, 50 Hz /60Hz, 30 VA (others on request)
EQUIPMENT/INSTALLATION:	



Distance:	Between the purge pot and the box: 300 m Between the box and the control room: 800 m in RS485
ATEX / IECEx Cabinet	Wall mount control cabinet : 398x298x205 mm (WxHxD) - 35 kg - Certification ATEX INERIS 15ATEX0010X Certification N° IECEx INE 15.0011X
No ATEX Cabinet	Wall mount control cabinet : 360x244x170 mm (WxHxD) - 4 kg - Stainless Steel 316
Circulation chamber with probe:	70 kg - Installation in ambient Temperature from 0 to 50°C PN20 DN 100. Suitable for potentially explosive atmospheres, (DIR/94/9/CE), certification LCIE 04 ATEX 6073, Ex d IIC T6.