

# OIL TATTLE



*North Star Systems: Device Specifications*

		OIL TATTLE
<b>Tattle device dimensions:</b>	<b>152.44mm x 152.4mm x 101.6mm (6" x 6" x 4")</b>	<p>OIL TATTLE is a self-powered, controlled remote monitoring and data solution for location and level. OIL TATTLE is compatible with several different energy applications such as holding tanks and pump jacks. Sensors cover many pressures (PSI) and range from submersible for internal installation to threaded for external installation. Through either the web app or smart phone mobile apps, you can view all your pressure vessel storage tank assets, product inventory, product levels, and product throughput in real time. OIL TATTLE in combination with Tattle Systems is a valuable business tool that enhances logistics efficiencies for product distribution.</p>
Device mounting	Brackets or Magnets	
Weight	3.5kg (7.7lb)	
Power	6V DC, 3.5W (via solar)	
Wired interfaces	9-pin (external sensor)	
Radio Interfaces	Cellular data	
Operating temperature	-40C to +60C	
Altitude	Up to 2000m	
Operating Humidity Range	Maximum relative humidity 80% for temperatures up to 31C decreasing linearly to 50% relative humidity at 40C	
Storage temperature	-40C to +65C	
IP Rating	IP54 (Protected from limited dust ingress. Protected from water spray from any direction, limited ingress protection)	
Certifications	Product Safety: QPS Certified for Canada and the United States.	
	<p><b>Class I, Div 2, Groups C&amp;D, T4</b>  <b>Class I, Zone 2 AEx nA IIB, T4</b></p> <p>Radio: This product contains</p> <p>FCC ID: UDV-1403022014008            IC: 8460A-20110302008</p>	



**North Star Systems: Sensor Specifications (certified applications) - external**

<b>Sensor housing</b>	Stainless steel
<b>External connection</b>	½" NPT
<b>Sensor Dimensions</b>	L=4.8" (121.92mm) D=1" (25.4mm)
<b>Sensor Cable</b>	Flying leads (open wires) - labeled
<b>Pressure range</b>	0...50 PSI or 0...3,000 PSI
<b>Temperature:</b>	-40C...+125C (-40F...257F)
<b>Sensor Cable length</b>	10ft (3m) or 50 (15m)

Sensor description:

- Pressure and temperature.
- External sensor threads ½" NPT provides opportunity to customize sensor and cable run to meet standard code regulations and procedures.
- External use only.



**Approvals    Marking**

<b>ATEX</b>	Class I, Zone 1, Ex d IIC T5 Gb
<b>CSA</b>	UL1203/FM3615 Class I Zone 1 Group IIC Class I Div 1 Groups A, B, C, D Explosionproof Class II Div 1 Groups E, F, G Dust Ignition-proof

**North Star Systems: Sensor connectivity**

<b>Cable Type</b>	PVC. grey
<b>Wire Gauge</b>	22 AWG
<b>Sensor Cable length</b>	10ft (3m)
<b>Cable certification</b>	CSA C/US AWM I/II A/B 105 DEG C. 600 VOLTS FT4
<b>Sensor connection</b>	Flying leads (Open wire) – Labeled
<b>Device connection</b>	9-pin Tattle male plug



*North Star Systems: Sensor Specifications (certified applications)*

<b>Sensor housing</b>	Stainless steel
<b>Sensor Dimensions</b>	L=9.84 (250mm) D=0.87" (22mm)
<b>Sensor Cable</b>	FEP/PUR
<b>Pressure range</b>	0...25 PSI
<b>Sensor Cable length</b>	10ft (3m) or 50 (15m)
<b>AirBox Certifications</b>	cULs, NEMA Type 4, 4x, 6, 6P
<b>AirBox Dimensions</b>	3" (75mm) x 3 1/8" (80mm) x 2" (52mm)
<b>AirBox to Tattle cable</b>	3ft (1m)
<b>Connection</b>	9-pin male plug
<b>Reducing fittings</b>	2" to 1/2"

Sensor description:

- Extensive test cycles not only guarantee a permanent resistance and long service life in all commonly used oils and fuels, including aggressive crude oils and biofuels, but also in flowing and stagnant waters and in wastewater treatment applications.
- Thanks to newly developed special cables, components made of high-alloyed stainless steel and an overvoltage protection against lightning, the submersible pressure sensor is perfectly suited for the measurement of liquid levels, also in the outdoor area.

**Approvals    Marking**

ATEX	Zone 0 gas [II 1G Ex ia IIC T4/T5/T6 Ga]
	Zone 1 gas [II 2G Ex ia IIC T4/T5/T6 Gb]
IECEX	Zone 0 gas [II ia IIC T4/T5/T6 Ga]
	Zone 1 gas [II ia IIC T4/T5/T6 Gb]
CSA	Class I, division 1, groups A, B, C, D
	Class I, zone 0; A/Ex ia IIC; T6 ... T4 Ga
	Class I, zone 1; A/Ex ia IIC; T6 ... T4 Gb
	Class I, zone 2; A/Ex ic IIC; T6 ... T4 Gc
FM	Class I, division 1, groups A, B, C, D
	Class I, zone 0, AEx ia IIC, T6 ... T4 Ga
	Class I, zone 1, AEx ia IIC, T6 ... T4 Gb
	Class I, zone 2, AEx ic IIC, T6 ... T4 Gc

