




# PV TDU TATTLE

## North Star Systems: Device Specifications

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





Dial volume	5% - 95%	
Dial Sizes	2" ( <b>screw-on mount</b> )	4" Fluorescent ( <b>screw-on mount</b> )
Dial fasteners	2 screws (6 - 32 x 3/8")	
Cable length	35ft (10m) <b>Cable protection</b>	
Connection	9-pin male plug	
Sensor Certifications	UL Classified as intrinsically safe for Class 1, Div 1, Group C&D	



**Dial:** 2" (Screw-on mount)



**Dial:** 4" Fluorescent (Screw-on mount)

Dial description:

- Magnetically driven dial.
- Hall effect is a solid state technology with no moving contacts. It counts on the fact that a magnet bends the path of electrons moving through a semiconductor.
- The R3D® - LP case is hermetically sealed by ultrasonic welding to melt and fuse the case into one solid piece. This keeps weather out, ensuring "no-fog" readability while greatly extending mechanical life. The seal is a high reliability, no-gasket design. Plastic case is resistant to corrosion and wide range of temperatures.
- The plastic case is far more resistant to corrosion than any metal-cased version and is capable of withstanding broad variations in temperature. The lens and case are a special, UV stabilized plastic material. Replacement dial only, Hall Effect components not included.
- Fluorescent – glowing dial numbers in the dark.

