



## Messenger Monitor - Industrial Satellite Telemetry

### Self-Contained Industrial Device

The Messenger is a rugged self contained unit which transmits remote site instrument data. This complete solution is designed for harsh industrial conditions such as oil and gas. The unit will transmit scheduled or alert-based notifications from instruments at remote sites.

The system's compact size, built in antenna and user friendly programming features allow the unit to be used in a large range of portable and permanent applications. The Messenger can connect with a variety of devices including gauge boards, level switches, pressure switches, electronic gauges, temperature sensors, motion sensors, and AC & DC power.

The Messenger can be combined with AeroAstro's VoiceAlert and DialDirect services for additional field optimization. These voice messaging services allow field operators to receive a voice alert when production crippling failures occur. Additionally, field operators can acknowledge the alert, discontinue the alert transmission, and exert greater control over the remote unit right from the telephone.

### Features

- Multiple digital and analog input channels
- Low voltage operation
- Weather proof non-corrosive enclosure with hidden antenna
- Rapid installation, easily moved from site to site
- No on-site programming

### Applications

- 24/7 alarm notifications
- Tank level inventory monitoring
- Pipeline pig tracking
- Corrosion data transmissions
- Pressure/temperature monitoring
- Equipment status monitoring
- Weather station monitoring
- Security monitoring



To order remote tracking hardware, transmitters, or data management services, please contact AeroAstro at 866.631.6010 or [info@sensservice.com](mailto:info@sensservice.com).

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# Messenger Specifications

<b>Physical:</b>	NEMA4X Enclosure:	10" x 8" x 6"
	Casing:	Fiberglass
	Weight:	7 lbs (battery powered) 4 lbs (line powered)

<b>Credentials:</b>	<b>Certifications:</b>	FCC Part 15 ICES-003
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<b>Environmental:</b>	<b>Temperature:</b>	-45C to +85C
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<b>Input Channels:</b>	4 Discrete:	Event Driven Alarms (normally open or normally closed)
	4 Analog:	0-5 VDC, 1-5 VDC, 0-20 mA, 4-20 mA

<b>Input Power:</b>	Model 900A:	115 AC
	Model 900D:	12 VDC
	Current Draw:	240 mA at 12 VDC

<b>Antenna:</b>	<b>Type:</b>	Built-in - 3 dB
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<b>Protection:</b>	Digital Channels:	Opto Isolated
	Analog Channels:	Suppression Diodes

<b>L-Band RF:</b>	Frequency:	1.615 GHz
	Protocol:	Simplex
	Modulation:	Direct Sequence Spread Spectrum (DSSS)
	Maximum TX Power:	+22 dBm EIRP
	Maximum TX Time:	1.4 Seconds (or custom programmable)
	Antenna:	Internal Ceramic Patch
Packet Size:	9 Bytes (or custom programmable)	

## About AeroAstro

AeroAstro is the only one-stop shop offering all SENS Data Services and related products on one invoice. AeroAstro provides complete, end-to-end support for our Value Added Resellers and their market specific products. As the designer and builder of the SENS Data Service, AeroAstro is in a unique position to assist VARs in all aspects of developing, implementing, and servicing their applications, hardware, communications, and data display.



20145 Ashbrook Place  
Ashburn, VA 20147  
info@sensservice.com  
www.sensservice.com  
www.aeroastro.com

t: 703.723.9800  
f: 703.723.9850