Open Stovepipe

Version 42

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Message 1 - Vehicle Pose Data

This message sends the position and Tait-Bryan orientation of the vehicle. This message will be transmitted once per second.

Field	Description	Primitive	Units
X	The x-position of the vehicle.	Double	Meters
Y	The y-position of the vehicle.	Double	Meters
Z	The z-position of the vehicle.	Double	Meters
Roll	The roll of the vehicle.	Float	Radians
Pitch	The pitch of the vehicle.	Float	Radians
Yaw	The yaw of the vehicle.	Float	Radians

Message 2 - Vehicle Attitude Data

This message sends the attitude of the vehicle. This message will be transmitted once per 10 seconds.

Field	Description	Primitive	Units
Roll	The roll of the vehicle.	Float	Radians
Pitch	The pitch of the vehicle.	Float	Radians
Yaw	The yaw of the vehicle.	Float	Radians
Roll_dot	The roll rate of the vehicle.	Float	Radians / second
Pitch_dot	The pitch rate of the vehicle.	Float	Radians / second
Yaw_dot	The yaw rate of the vehicle.	Float	Radians / second

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Message 13 - Vehicle Position Command

This message sets the desired position of the vehicle. This message will be transmitted each time the command is issued from the control station.

Field	Description	Primitive	Units
Latitude	The latitude to which the vehicle should fly.	Double	Radians
Longitude	The longitude to which the vehicle should fly.	Double	Radians
Altitude	The altitude to which the vehicle should fly.	Float	Meters
Speed	The travel speed of the vehicle.	Float	Meters / second

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Message 113 - Vehicle Geo Pose

This message sends the geodetic position and Tait-Bryan orientation of the vehicle. This message will be transmitted on demand.

Field	Description	Primitive	Units
Latitude	The latitude of the vehicle.	Double	Radians
Longitude	The longitude of the vehicle.	Double	Radians
Altitude	The altitude of the vehicle.	Float	Meters
Roll	The roll of the vehicle.	Float	Radians
Pitch	The pitch of the vehicle.	Float	Radians
Yaw	The yaw of the vehicle.	Float	Radians

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Acknowledgements

Top Hat icon created by Luke Anthony Firth from the Noun Project