

OlliW MAVLink augmented OpenTX LUA function reference, detailed edition (rev. 1.0 based on v24 firmware)

February 12th, 2021

General OpenTX LUA additions are to be called directly - example: *getEvent()* , MavSDK library function calls need to be prepended with *mavsdk* and a dot - example: *mavsdk.mavtelemisEnabled()*
Getters are listed in **blue**, setters in **green**.

	General OpenTX LUA additions	return value / parameter	Unit	Internal C++ function/wrapper	Value stems internally from or calls function(s)	MAVLink message	MAVLink msg field(s)	Data type & unit	Comments
Generic	<i>getEvent</i>	value[integer][event]	enum, see keys.h	luaGetEvent	s_evt sets s_evt_lockmask, allows only ENTER, MODEL, EXIT, TELEM, RADIO to be locked	-	-	-	returns only locked keys and rotary events gets set for max 500ms, OpenTX internal setting
	<i>lockKeys</i>	value[unsigned][mask]	-	luaLockKeys	clears s_evt_lockmask	-	-	-	OpenTX internal setting
	<i>unlockKeys</i>	-	-	luaUnlockKeys	true if menuLevel > 0	-	-	-	OpenTX internal setting
	<i>isInMenu</i>	value[bool]	-	luaIsInMenu		-	-	-	

	MavSDK function	return value / parameter	Unit	MavSDK internal C++ function/wrapper	Value stems internally from or calls function(s)	MAVLink message	MAVLink msg field(s)	Data type & unit	Comments
Generic 1	<i>mavtelemisEnabled</i>	value[bool]	-	luaMavsdkMavTelemisEnabled	g_eeGeneral.auxSerialMode g_eeGeneral.aux2SerialMode	-	-	-	OpenTX radio SYSTEM settings check
	<i>isReceiving</i>	value[bool]	-	luaMavsdksReceiving	mavlinkTelem.isReceiving()	all except RADIO_STATUS Any when compid == autopilot.compid and all requests done	-	-	
	<i>isInitialized</i>	value[bool]	-	luaMavsdksIsInitialized	mavlinkTelem.autopilot.is_receiving mavlinkTelem.autopilot.is_initialized	-	-	-	
	<i>getVersion</i>	value[string]	-	luaMavsdksMavTelemVersion	OWVERSIONONLYSTR	-	-	-	Constant in opentx.h, e.g. "v22" or "v22rc01"
Generic 2	<i>getAutopilotType</i>	value[number]	enum MAV_AUTOPILOT	luaMavsdkGetAutopilotType	mavlinkTelem.autopilottype	#0 HEARTBEAT	autopilot	uint8_t [enum]	
	<i>getVehicleType</i>	value[number]	enum MAV_TYPE enum PLANE_MODE or COPTER_MODE or SUB_MODE or ROVER_MODE or TRACKER_MODE	luaMavsdkGetVehicleType	mavlinkTelem.vehicletype	#0 HEARTBEAT	type	uint8_t [enum]	
	<i>getFlightMode</i>	value[number]	enum MAV_TYPE	luaMavsdksGetFlightMode	mavlinkTelem.flightmode	#0 HEARTBEAT	custom_mode	uint32_t [enum]	enum type depends on vehicletype
	<i>getVehicleClass</i>	value[number]	enum MAV_STATE	luaMavsdksGetVehicleClass	mavlinkTelem.vehicletype	#0 HEARTBEAT	type	uint8_t [enum]	
IMU	<i>getSystemStatus</i>	value[number]	enum MAV_STATE	luaMavsdksGetSystemStatus	mavlinkTelem.autopilot.system_status	#0 HEARTBEAT	system_status	uint8_t [enum]	
	<i>isArmed</i>	value[bool]	-	luaMavsdksIsArmed	mavlinkTelem.autopilot.is_armed	#0 HEARTBEAT	base_mode	uint8_t [enum]	
	<i>getAttRollDeg</i>	value[number]	°	luaMavsdksGetAttRollDeg	mavlinkTelem.att.roll_rad * 180/PI	#30 ATTITUDE	roll	float [rad]	-PI to +PI
	<i>getAttPitchDeg</i>	value[number]	°	luaMavsdksGetAttPitchDeg	mavlinkTelem.att.pitch_rad * 180/PI	#30 ATTITUDE	pitch	float [rad]	-PI to +PI
Vfr	<i>getAttYawDeg</i>	value[number]	°	luaMavsdksGetAttYawDeg	mavlinkTelem.att.yaw_rad * 180/PI	#30 ATTITUDE	yaw	float [rad]	-PI to +PI
	<i>getVfrAirSpeed</i>	value[number]	m/s	luaMavsdksGetVfrAirSpeed	mavlinkTelem.vfr.airspd_mps	#74 VFR_HUD	airspeed	float [m/s]	
	<i>getVfrGroundSpeed</i>	value[number]	m/s	luaMavsdksGetVfrGroundSpeed	mavlinkTelem.vfr.groundspd_mps	#74 VFR_HUD	groundspeed	float [m/s]	
	<i>getVfrAltitudeMsl</i>	value[number]	m	luaMavsdksGetVfrAltitudeMsl	mavlinkTelem.vfr.alt_m	#74 VFR_HUD	alt	float [m]	
GPS generic	<i>getVfrClimbRate</i>	value[number]	m/s	luaMavsdksGetVfrClimbRate	mavlinkTelem.vfr.climbrate_mps	#74 VFR_HUD	climb	float [m/s]	
	<i>getVfrHeadingDeg</i>	value[number]	°	luaMavsdksGetVfrHeadingDeg	mavlinkTelem.vfr.heading_deg	#74 VFR_HUD	heading	int16_t [°]	0-360, 0=north
	<i>getVfrThrottle</i>	value[integer]	%	luaMavsdksGetVfrThrottle	mavlinkTelem.vfr.thro_pct	#74 VFR_HUD	throttle	uint16_t [%]	0 to 100
	<i>getGpsCount</i>	value[integer]	bitmap	luaMavsdksGetGpsCount	mavlinkTelem.gps_instancemask	#24 GPS_RAW_INT #124 GPS2_RAW	any		
GPS 1st or only	<i>getPositionLatLonInt</i>	table (lat[integer], lon[integer])	°E7	luaMavsdksGetPositionLatLonInt	mavlinkTelem.gposition.lat mavlinkTelem.gposition.lon	#33 GLOBAL_POSITION_INT	lat lon	int32_t [°E7] int32_t [°E7]	need to divide with 10 million to get ° need to divide with 10 million to get °
	<i>getPositionAltitudeMsl</i>	value[number]	m	luaMavsdksGetPositionAltitudeMsl	mavlinkTelem.gposition.alt_mm/1000	#33 GLOBAL_POSITION_INT	alt	int32_t [mm]	
	<i>getPositionAltitudeRelative</i>	value[number]	m	luaMavsdksGetPositionAltitudeRelative	mavlinkTelem.gposition.relative_alt_mm/1000	#33 GLOBAL_POSITION_INT	relative_alt	int32_t [mm]	Altitude above ground
	<i>getPositionHeadingDeg</i>	value[number]	°	luaMavsdksGetPositionHeadingDeg	mavlinkTelem.gposition.hdg_cdeg/100	#33 GLOBAL_POSITION_INT	hdg	uint16_t [c°]	0 to 359.99°, UINT16_MAX = unknown
GPS 2nd	<i>getPositionSpeedNed</i>	table (vx[number], vy[number], vz[number])	m/s m/s m/s	luaMavsdksGetPositionSpeedNed	mavlinkTelem.gposition.vx_cm/100 mavlinkTelem.gposition.vy_cm/100 mavlinkTelem.gposition.vz_cm/100	#33 GLOBAL_POSITION_INT	vx vy vz	int16_t [cm/s] int16_t [cm/s] int16_t [cm/s]	
	<i>isGpsAvailable</i>	value[bool]	-	luaMavsdksGps1Available	mavlinkTelem.gps_instancemask & 0x01	#24 GPS_RAW_INT	any		
	<i>getGpsStatus</i>	table (fix[number], hdop[number], vdop[number], sat[number])	enum GPS_FIX_TYPE	luaMavsdksGetGps1Status	mavlinkTelem.gps1.fix mavlinkTelem.gps1.hdop/100 mavlinkTelem.gps1.vdop/100 mavlinkTelem.gps1.sat	#24 GPS_RAW_INT #24 GPS_RAW_INT #24 GPS_RAW_INT #24 GPS_RAW_INT	fix_type eph epv satellites_visible	uint8_t [enum] uint16_t uint16_t uint8_t	valid range 0 to 8 UINT16_MAX = unknown UINT16_MAX = unknown UINT8_MAX = unknown
	<i>getGpsFix</i>	value[number]	enum GPS_FIX_TYPE	luaMavsdksGetGps1Fix	mavlinkTelem.gps1.fix	#24 GPS_RAW_INT	fix_type	uint8_t [enum]	valid range 0 to 8
GPS 1st or only	<i>getGpsHDop</i>	value[number]	-	luaMavsdksGetGps1HDop	mavlinkTelem.gps1.hdop/100	#24 GPS_RAW_INT	eph	uint16_t	UINT16_MAX = unknown
	<i>getGpsVDop</i>	value[number]	-	luaMavsdksGetGps1VDop	mavlinkTelem.gps1.vdop/100	#24 GPS_RAW_INT	epv	uint16_t	UINT16_MAX = unknown
	<i>getGpsSat</i>	value[number]	-	luaMavsdksGetGps1Sat	mavlinkTelem.gps1.sat	#24 GPS_RAW_INT	satellites_visible	uint8_t	UINT8_MAX = unknown, currently no special handling
	<i>getGpsLatLonInt</i>	table (lat[integer], lon[integer])	°E7	luaMavsdksGetGps1LatLonInt	mavlinkTelem.gps1.lat mavlinkTelem.gps1.lon	#24 GPS_RAW_INT #24 GPS_RAW_INT	lat lon	int32_t [°E7] int32_t [°E7]	need to divide with 10 million to get ° need to divide with 10 million to get °
GPS 2nd	<i>getGpsAltitudeMsl</i>	value[number]	m	luaMavsdksGetGps1AltitudeMsl	mavlinkTelem.gps1.alt_mm/1000	#24 GPS_RAW_INT	alt	int32_t [mm]	
	<i>getGpsSpeed</i>	value[number]	m/s	luaMavsdksGetGps1Speed	mavlinkTelem.gps1.vel_cm/100	#24 GPS_RAW_INT	vel	uint16_t [cm/s]	>=UINT16_MAX outputs nil
	<i>getGpsCourseOverGroundDeg</i>	value[number]	°	luaMavsdksGetGps1CourseOverGroundDeg	mavlinkTelem.gps1.cog_cdeg/100	#24 GPS_RAW_INT	cog	uint16_t [0.01°]	>=UINT16_MAX outputs nil
	<i>isGps2Available</i>	value[bool]	-	luaMavsdksGps2Available	mavlinkTelem.gps_instancemask & 0x02	#124 GPS2_RAW	any		
GPS 1st or only	<i>getGps2Status</i>	table (fix[number], hdop[number], vdop[number], sat[number])	enum GPS_FIX_TYPE	luaMavsdksGetGps2Status	mavlinkTelem.gps2.fix mavlinkTelem.gps2.hdop/100 mavlinkTelem.gps2.vdop/100 mavlinkTelem.gps2.sat	#124 GPS2_RAW #124 GPS2_RAW #124 GPS2_RAW #124 GPS2_RAW	fix_type eph epv satellites_visible	uint8_t [enum] uint16_t uint16_t uint8_t	valid range 0 to 8 UINT16_MAX = unknown UINT16_MAX = unknown UINT8_MAX = unknown
	<i>getGps2Fix</i>	value[number]	enum GPS_FIX_TYPE	luaMavsdksGetGps2Fix	mavlinkTelem.gps2.fix	#124 GPS2_RAW	fix_type	uint8_t [enum]	valid range 0 to 8
	<i>getGps2HDop</i>	value[number]	-	luaMavsdksGetGps2HDop	mavlinkTelem.gps2.hdop/100	#124 GPS2_RAW	eph	uint16_t	UINT16_MAX = unknown
	<i>getGps2VDop</i>	value[number]	-	luaMavsdksGetGps2VDop	mavlinkTelem.gps2.vdop/100	#124 GPS2_RAW	epv	uint16_t	UINT16_MAX = unknown
GPS 2nd	<i>getGps2Sat</i>	value[number]	-	luaMavsdksGetGps2Sat	mavlinkTelem.gps2.sat	#124 GPS2_RAW	satellites_visible	uint8_t	UINT8_MAX = unknown, currently no special handling
	<i>getGps2LatLonInt</i>	table (lat[integer], lon[integer])	°E7	luaMavsdksGetGps2LatLonInt	mavlinkTelem.gps2.lat mavlinkTelem.gps2.lon	#124 GPS2_RAW #124 GPS2_RAW	lat lon	int32_t [°E7] int32_t [°E7]	need to divide with 10 million to get ° need to divide with 10 million to get °
	<i>getGps2AltitudeMsl</i>	value[number]	m	luaMavsdksGetGps2AltitudeMsl	mavlinkTelem.gps2.alt_mm/1000	#124 GPS2_RAW	alt	int32_t [mm]	
	<i>getGps2Speed</i>	value[number]	m/s	luaMavsdksGetGps2Speed	mavlinkTelem.gps2.vel_cm/100	#124 GPS2_RAW	vel	uint16_t [cm/s]	>=UINT16_MAX outputs nil
Battery	<i>getGps2CourseOverGroundDeg</i>	value[number]	°	luaMavsdksGetGps2CourseOverGroundDeg	mavlinkTelem.gps2.cog_cdeg/100	#124 GPS2_RAW	cog	uint16_t [0.01°]	>=UINT16_MAX outputs nil
	<i>isBatAvailable</i>	value[bool]	-	luaMavsdksBat1Available	mavlinkTelem.bat_instancemask & 0x01	#147 BATTERY_STATUS	id	uint8_t	id must be < 8
	<i>isBat2Available</i>	value[bool]	-	luaMavsdksBat2Available	mavlinkTelem.bat_instancemask & 0x02	#147 BATTERY_STATUS	id	uint8_t	id must be < 8
	<i>getBatCount</i>	value[integer]	-	luaMavsdksGetBatCount	mavlinkTelem.bat_instancemask	#147 BATTERY_STATUS	id	uint8_t	id must be < 8
Battery, 1st or only	<i>getBatChargeConsumed</i>	value[number]	mAh	luaMavsdksGetBat1ChargeConsumed	mavlinkTelem.bat1.charge_consumed_mAh	#147 BATTERY_STATUS	current_consumed	int32_t [mAh]	negative outputs nil
	<i>getBatEnergyConsumed</i>	value[number]	J	luaMavsdksGetBat1EnergyConsumed	mavlinkTelem.bat1.energy_consumed_hj * 100	#147 BATTERY_STATUS	energy_consumed	int32_t [100J]	negative outputs nil
	<i>getBatTemperature</i>	value[number]	°C	luaMavsdksGetBat1Temperature	mavlinkTelem.bat1.temperature_cc/100	#147 BATTERY_STATUS	temperature	int16_t [0.01°C]	>=INT16_MAX outputs nil
	<i>getBatVoltage</i>	value[number]	V	luaMavsdksGetBat1Voltage	mavlinkTelem.bat1.voltage_mV/1000	#147 BATTERY_STATUS	voltage[10] voltages_ext[4]	uint16_t [10] uint16_t [4] [mV]	
Battery, 1st or only	<i>getBatCurrent</i>	value[number] [nil]	A	luaMavsdksGetBat1Current	mavlinkTelem.bat1.current_cA/100	#147 BATTERY_STATUS	current_battery	int16_t [10mA]	-1 outputs nil
	<i>getBatRemaining</i>	value[integer]	%	luaMavsdksGetBat1Remaining	mavlinkTelem.bat1.remaining_pct	#147 BATTERY_STATUS	battery_remaining	int8_t [%]	-1 outputs nil
	<i>getBatCellCount</i>	value[integer]	-	luaMavsdksGetBat1CellCount	mavlinkTelem.bat1.cellcount	#147 BATTERY_STATUS	voltage[10] voltages_ext[4]	uint16_t [10] uint16_t [4] [mV]	
	<i>getBatTimeRemaining</i>	value[integer] [nil]	s	luaMavsdksGetBat1TimeRemaining	mavlinkTelem.bat1.time_remaining	#147 BATTERY_STATUS	time_remaining	int32_t [s]	if time_remaining == 0 outputs nil
Battery, 1st or only	<i>getBatChargeState</i>	value[integer] [nil]	enum MAV_BATTERY_CHARGE_STATE	luaMavsdksGetBat1ChargeState	mavlinkTelem.bat1.charge_state	#147 BATTERY_STATUS	charge_state	uint8_t [enum]	if undefined, outputs nil
	<i>getBatFaultBitMask</i>	value[integer] [nil]	enum MAV_BATTERY_FAULT	luaMavsdksGetBat1FaultBitMask	mavlinkTelem.bat1.fault_bitmask	#147 BATTERY_STATUS	fault_bitmask	uint32_t [enum]	if state is (failed or unhealthy) outputs nil
	<i>getBatCapacity</i>	value[number]		luaMavsdksGetBat1Capacity	mavlinkTelem.param.BATT_CAPACITY	#22 PARAM_VALUE	param_value	float	negative outputs nil, unit mAh in 50 mAh steps in ArduPilot

	MavSDK function	return value / parameter	Unit	MavSDK internal C++ function/wrapper	Value stems internally from or calls function(s)	MAVLink message	MAVLink msg field(s)	Data type & unit	Comments
Battery_2nd	getBat2ChargeConsumed	value[number]	mAh	luaMavsdKGetBat2ChargeConsumed	mavlinkTelem.bat2.charge_consumed_mAh	#147 BATTERY_STATUS	current_consumed	int32_t [mAh]	negative outputs nil
	getBat2EnergyConsumed	value[number]	J	luaMavsdKGetBat2EnergyConsumed	mavlinkTelem.bat2.energy_consumed_hj * 100	#147 BATTERY_STATUS	energy_consumed	int32_t [100J]	negative outputs nil
	getBat2Temperature	value[number]	°C	luaMavsdKGetBat2Temperature	mavlinkTelem.bat2.temperature_cC/100	#147 BATTERY_STATUS	temperature	int16_t [0.01°C]	>=INT16_MAX outputs nil
	getBat2Voltage	value[number]	V	luaMavsdKGetBat2Voltage	mavlinkTelem.bat2.voltage_mV/1000	#147 BATTERY_STATUS	voltage[10]	uint16_t[10] [mV]	
	getBat2Current	value[number nil]	A	luaMavsdKGetBat2Current	mavlinkTelem.bat2.current_cA/100	#147 BATTERY_STATUS	voltages_ext[4]	uint16_t[4] [mV]	
	getBat2Remaining	value[integer]	%	luaMavsdKGetBat2Remaining	mavlinkTelem.bat2.remaining_pct	#147 BATTERY_STATUS	current_battery	int16_t [10mA]	-1 outputs nil
						#147 BATTERY_STATUS	battery_remaining	int8_t [%]	-1 outputs nil
						#147 BATTERY_STATUS	voltage[10]	uint16_t[10] [mV]	
	getBat2CellCount	value[integer]	-	luaMavsdKGetBat2CellCount	mavlinkTelem.bat2.cellcount	#147 BATTERY_STATUS	voltages_ext[4]	uint16_t[4] [10mV]	negative outputs nil
	getBat2TimeRemaining	value[integer nil]	s	luaMavsdKGetBat2TimeRemaining	mavlinkTelem.bat2.time_remaining	#147 BATTERY_STATUS	time_remaining	int32_t [s]	if time_remaining == 0 outputs nil
Mission	getBat2ChargeState	value[integer nil]	enum MAV_BATTERY_CHARGE_STATE	luaMavsdKGetBat2ChargeState	mavlinkTelem.bat2.charge_state	#147 BATTERY_STATUS	charge_state	uint8_t [enum]	if undefined, outputs nil
	getBat2FaultBitMask	value[integer nil]	enum MAV_BATTERY_FAULT	luaMavsdKGetBat2FaultBitMask	mavlinkTelem.bat2.fault_bitmask	#147 BATTERY_STATUS	fault_bitmask	uint32_t [enum]	if state is [(failed or unhealthy) outputs nil
									negative outputs nil,
	getBat2Capacity	value[number]		luaMavsdKGetBat2Capacity	mavlinkTelem.param.BATT2_CAPACITY	#22 PARAM_VALUE	param_value	float	unit mAh in 50 mAh steps in ArduPilot
	getMission	table {count[integer], current_seq[integer]}	-	luaMavsdKGetMission	mavlinkTelem.mission.count mavlinkTelem.mission.seq_current	#44 MISSION_COUNT #42 MISSION_CURRENT	count seq	uint16_t uint16_t	
		table {seq[integer], command[integer], frame[integer], is_global[boolean], lat[integer] or x[number], lon[integer] or y[number], alt[number] or z[number]}	-		mavlinkTelem.missionitem.seq mavlinkTelem.missionitem.command mavlinkTelem.missionitem.frame mavlinkTelem.missionitem.frame mavlinkTelem.missionitem.x or -x/10000 mavlinkTelem.missionitem.y or y//10000 mavlinkTelem.missionitem.z or z/10000	#73 MISSION_ITEM_INT #73 MISSION_ITEM_INT #73 MISSION_ITEM_INT #73 MISSION_ITEM_INT #73 MISSION_ITEM_INT #73 MISSION_ITEM_INT #73 MISSION_ITEM_INT	seq command frame frame x y z	uint16_t uint16_t [enum] uint8_t [enum] uint8_t [enum] int32_t [*°e7] or [m°e4] int32_t [*°e7] or [m°e4] float [m]	starts at 0, no gaps coordinate system coordinate system global °e7, local m°e4 global alt m, local z m
	getMissionItem		enum MAV_CMD_* (value) enum MAV_FRAME . °e7 or m °e7 or m °e7 or m	luaMavsdKGetMissionItem					
		table {nav_bearing[number], target_bearing[number], wp_dist[number]}	*		mavlinkTelem.navControllerOutput.nav_bearing mavlinkTelem.navControllerOutput.target_bearing mavlinkTelem.navControllerOutput.wp_dist	#62 NAV_CONTROLLER_OUTPUT #62 NAV_CONTROLLER_OUTPUT #62 NAV_CONTROLLER_OUTPUT	nav_bearing target_bearing wp_dist	int16_t [°] int16_t [°] uint16_t [m]	
	getNavController		m	luaMavsdKGetNavControllerOutput					
Messages	isStatusTextAvailable	value[bool]	-	luaMavsdKisStatusTextAvailable	not mavlinkTelem.statustext.fifo.isEmpty()	#253 STATUSTEXT	severity text	uint8_t [enum] char[50]	valid range 0 to 7 without null termination character
	getStatusText	value[integer nil] value[string nil]	enum MAV_SEVERITY -	luaMavsdKGetStatusText	mavlinkTelem.statustext.fifo	#253 STATUSTEXT	severity text	uint8_t [enum] char[50]	if nothing in buffer, outputs nil, nil
RF Link	getRadioRssi	value[integer]	-	luaMavsdKGetRadioRssi	mavlinkTelem.radio.rssi, or mavlinkTelem.radio.rssi65, or mavlinkTelem.radio.rssi35	#109 RADIO_STATUS #65 RC_CHANNELS #35 RC_CHANNELS_RAW	rssi rssi rssi	uint8_t uint8_t uint8_t	valid range 0-254, 255 = invalid valid range 0-254, 255 = invalid valid range 0-254, 255 = invalid
	getRadioRemoteRssi	value[integer]	-	luaMavsdKGetRadioRemoteRssi	mavlinkTelem.radio.remrssi	#109 RADIO_STATUS	remrssi	uint8_t	valid range 0-254, 255 = invalid
	getRadioNoise	value[integer]	2dB on SiK	luaMavsdKGetRadioNoise	mavlinkTelem.radio.noise	#109 RADIO_STATUS	noise	uint8_t	valid range 0-254, 255 = invalid
	getRadioRemoteNoise	value[integer]	2dB on SiK	luaMavsdKGetRadioRemoteNoise	mavlinkTelem.radio.remnoise	#109 RADIO_STATUS	remnoise	uint8_t	valid range 0-254, 255 = invalid
						#109 RADIO_STATUS or #65 RC_CHANNELS or #35 RC_CHANNELS_RAW	rssi rssi rssi	uint8_t uint8_t uint8_t	
	getRadioRssiScaled	value[integer nil]	-	luaMavsdKGetRadioRssiScaled	mavlinkTelem.radio.rssi_scaled, calculated from rssi and g_model.mavlinkRssiScale				if #109 or #65 or #35 are not receiving, outputs nil
	optionGetRssiScale	value[integer]	-	luaMavsdKOptionGetRssiScale	g_model.mavlinkRssiScale	-	-	-	OpenTX internal function
	optionSetRssiScale	value[integer]	-	luaMavsdKOptionSetRssiScale	g_model.mavlinkRssiScale = value, limited from 0 to 255	-	-	-	OpenTX internal function
	optionIsRssiEnabled	value[bool]	-	luaMavsdKOptionIsRssiEnabled	g_model.mavlinkRssi	-	-	-	OpenTX internal function
	optionEnableRssi	value[integer][bool]	-	luaMavsdKOptionEnableRssi	g_model.mavlinkRssi = value ? 1 : 0	-	-	-	OpenTX internal function
	radioDisableRssiVoice	value[integer][bool]	-	luaMavsdKRadioDisableRssiVoice	if value>0 mavlinkTelem.radio.rssi_voice_disabled = true else false	-	-	-	OpenTX internal function
AP	apIsFlying	value[bool]	-	luaMavsdKApIsFlying	not mavlinkTelem.autopilot.is_standby	#0 HEARTBEAT	system_status	uint8_t [enum]	
	apIsFailsafe	value[bool]	-	luaMavsdKApIsFailsafe	mavlinkTelem.autopilot.is_critical	#0 HEARTBEAT	system_status	uint8_t [enum]	
	apPositionOk	value[bool]	-	luaMavsdKApPositionOk	mavlinkTelem.apPositionOk()	#193 EKF_STATUS_REPORT	flags	uint16_t [enum]	true if EKF_POS_HORIZ_ABS & EKF_VELOCITY_HORIZ
			enum PLANE_MODE or COPTER_MODE or SUB_MODE or ROVER_MODE or TRACKER_MODE						
	apSetFlightMode	value[integer]	-	luaMavsdKApSetFlightMode	mavlinkTelem.apSetFlightMode(value)	176 MAV_CMD_DO_SET_MODE	2: Custom Mode	[enum]	value = ap_flight_mode, according vehicle type
	apRequestBanner	none	-	luaMavsdKApRequestBanner	mavlinkTelem.apRequestBanner()	42428 MAV_CMD_DO_SEND_BANNER	-	-	
	apArm	value[integer][bool]	-	luaMavsdKApArm	mavlinkTelem.apArm()	400 MAV_CMD_COMPONENT_ARM_DISARM	1: Arm	-	if value > 0, arms
	apCopterTakeOff	value[number][alt]	m	luaMavsdKApCopterTakeOff	mavlinkTelem.apCopterTakeOff(value)	22 MAV_CMD_NAV_TAKEOFF	7: Altitude	[m]	value = Altitude
	apLand	none	-	luaMavsdKApLand	mavlinkTelem.apLand()	21 MAV_CMD_NAV_LAND	-	-	
	apGetRangeFinder	value[number]	m	luaMavsdKApGetRangeFinder	mavlinkTelem.rangefinder.distance	#173 RANGEFINDER	distance	float [m]	
Camera	cameralsReceiving	value[bool]	-	luaMavsdKCameralsReceiving	if (mavlinkTelem.camera.is_receiving > 0) true else false		any from camera.compид	-	
	cameralsInitialized	value[bool]	-	luaMavsdKCameralsInitialized	if (((mavlinkTelem.camera.is_receiving > 0) and mavlinkTelem.camera.is_initialized) true else false		any when _msg.compид == camera.compид and no requests waiting	-	
		table {compид[integer], flags[integer], has_video[bool], has_photo[bool], has_modes[bool], total_capacity[number nil], vendor_name[string], model_name[string], firmware_version[string]}	enum MAV_COMPONENT enum CAMERA_CAP_FLAGS - - - MiB - - -		mavlinkTelem.camera.compид mavlinkTelem.cameraInfo.flags mavlinkTelem.cameraInfo.has_video mavlinkTelem.cameraInfo.has_photo mavlinkTelem.cameraInfo.has_modes mavlinkTelem.cameraInfo.total_capacity_MiB mavlinkTelem.cameraInfo.vendor_name mavlinkTelem.cameraInfo.model_name mavlinkTelem.cameraInfo.firmware_version	#0 HEARBEAT #259 CAMERA_INFORMATION #259 CAMERA_INFORMATION #259 CAMERA_INFORMATION #259 CAMERA_INFORMATION #261 STORAGE_INFORMATION #259 CAMERA_INFORMATION #259 CAMERA_INFORMATION #259 CAMERA_INFORMATION	_msg.compид (header, not payload!) flags flags & 1 flags & 2 flags & 4 total_capacity (only when READY, else NAN) vendor_name model_name firmware_version	uint8_t [enum] uint32_t [enum] uint32_t [enum] uint32_t [enum] uint32_t [enum] float [MiB] uint8_t [32] uint8_t [32] uint32_t	Dev, Patch, Minor, Major
	cameraGetInfo			luaMavsdKCameraGetInfo					
		table {system_status[integer], mode[integer], video_on[boolean], photo_on[boolean], available_capacity[number nil],	enum MAV_STATE enum CAMERA_MODE - - MiB		mavlinkTelem.camera.system_status mavlinkTelem.cameraStatus.mode mavlinkTelem.cameraStatus.video_on mavlinkTelem.cameraStatus.photo_on mavlinkTelem.cameraStatus.available_capacity_MiB	#0 HEARBEAT #260 CAMERA_SETTINGS #262 CAMERA_CAPTURE_STATUS #262 CAMERA_CAPTURE_STATUS #262 CAMERA_CAPTURE_STATUS or #261 STORAGE_INFORMATION #147 BATTERY_STATUS	system_status mode_id video_status, if > 0 outputs true, else false image_status, if > 0 outputs true, else false available_capacity available_capacity (only when READY, else NAN) sum voltages/1000, if all UINT16_MAX then NAN battery_remaining	uint8_t [enum] uint8_t [enum] uint8_t uint8_t float [MiB] float [MiB] uint16_t[10] [mV] int8_t [%]	converted to boolean, true if IMAGE converted to boolean converted to boolean
	cameraGetStatus	battery_voltage[number nil], battery_remaininpct[integer nil])	V %	luaMavsdKCameraGetStatus	mavlinkTelem.cameraStatus.battery_voltage_V mavlinkTelem.cameraStatus.battery_remaining_pct				range 0 to 100, -1 if unknown
	cameraSendVideoMode	none	-	luaMavsdKCameraSendVideoMode	mavlinkTelem.sendCameraSetVideoMode()	530 MAV_CMD_SET_CAMERA_MODE	1: 0 2: Camera Mode = CAMERA_MODE_VIDEO = 1 3: 0 4: 0 7: 0	-	
	cameraSendPhotoMode	none	-	luaMavsdKCameraSendPhotoMode	mavlinkTelem.sendCameraSetPhotoMode()	530 MAV_CMD_SET_CAMERA_MODE	1: 0 2: Camera Mode = CAMERA_MODE_IMAGE = 0 3: 0 4: 0 7: 0	-	
	cameraStartVideo	none	-	luaMavsdKCameraStartVideo	mavlinkTelem.sendCameraStartVideo()	2500 MAV_CMD_VIDEO_START_CAPTURE	1: Stream ID = 0 2: Status Frequency = 0.2 = 5 s period 3 to 7: 0	[Hz]	
	cameraStopVideo	none	-	luaMavsdKCameraStopVideo	mavlinkTelem.sendCameraStopVideo()	2501 MAV_CMD_VIDEO_STOP_CAPTURE	1: Steam ID = 0 2 to 7: 0		
	cameraTakePhoto	none	-	luaMavsdKCameraTakePhoto	mavlinkTelem.sendCameraTakePhoto()	2000 MAV_CMD_IMAGE_START_CAPTURE	1: Reserved = 0 2: Interval = 0 3: Total Images = 1 4: Sequence Number = 0 5 to 7: 0	- [s] - - -	

	MavSDK function	return value / parameter	Unit	MavSDK internal C++ function/wrapper	Value stems internally from or calls function(s)	MAVLink message	MAVLink msg field(s)	Data type & unit	Comments
Gimbal generic	gimbalsReceiving	value[bool]	-	luaMavsdgGimbalsReceiving	if (mavlinkTelem.gimbal.is_receiving > 0) true else false	any from gimbal.compId	-	-	
	gimbalsInitialized	value[bool]	-	luaMavsdgGimbalsInitialized	if ((mavlinkTelem.gimbal.is_receiving > 0) and mavlinkTelem.gimbal.is_initialized) true else false	#0 HEARTBEAT	any	-	at least one HEARTBEAT from gimbal
	gimbalGetInfo	table {compId[integer], vendor_name[string], model_name[string], custom_name[string], firmware_version[string], hardware_version[string], capability_flags[integer]}	enum MAV_COMPONENT	luaMavsdgGimbalGetInfo	mavlinkTelem.gimbal.deviceInfo.vendor_name mavlinkTelem.gimbal.deviceInfo.model_name mavlinkTelem.gimbal.deviceInfo.custom_name mavlinkTelem.gimbal.deviceInfo.firmware_version mavlinkTelem.gimbal.deviceInfo.hardware_version mavlinkTelem.gimbal.deviceInfo.cap_flags	#283 GIMBAL_DEVICE_INFORMATION #283 GIMBAL_DEVICE_INFORMATION #283 GIMBAL_DEVICE_INFORMATION #283 GIMBAL_DEVICE_INFORMATION #283 GIMBAL_DEVICE_INFORMATION	msg.compId (header, not payload!) vendor_name model_name custom_name firmware_version hardware_version cap_flags + custom_capflags	uint8_t [enum] char[32] char[32] char[32] uint32_t uint32_t uint16_t + uint16_t	Dev, Patch, Minor, Major bitmap + bitmap
	gimbalGetStatus	table {system_status[number], custom_mode[number], is_armed[bool], prearm_ok[bool]}	- - - -	luaMavsdgGimbalGetStatus	mavlinkTelem.gimbal.system_status mavlinkTelem.gimbal.custom_mode mavlinkTelem.gimbal.is_armed mavlinkTelem.gimbal.pream_ok	#0 HEARTBEAT #0 HEARTBEAT #0 HEARTBEAT #0 HEARTBEAT	system_status custom_mode base_mode custom_mode	uint8_t uint32_t uint8_t uint8_t	
	gimbalGetAttRollDeg	value[number]	*	luaMavsdgGimbalGetAttRollDeg	mavlinkTelem.gimbalAtt.roll_deg	#30 ATTITUDE	roll * 180/PI	float [rad]	
	gimbalGetAttPitchDeg	value[number]	*	luaMavsdgGimbalGetAttPitchDeg	mavlinkTelem.gimbalAtt.pitch_deg	#30 ATTITUDE	pitch * 180/PI	float [rad]	
	gimbalGetAttYawDeg	value[number]	*	luaMavsdgGimbalGetAttYawDeg	mavlinkTelem.gimbalAtt.yaw_deg_relative	#30 ATTITUDE	yaw * 180/PI	float [rad]	
Gimbal protocol v1	gimbalSendNeutralMode	none	-	luaMavsdgGimbalSendNeutralMode	mavlinkTelem.sendGimbalTargetingMode(1)	204 MAV_CMD_DO_MOUNT_CONFIGURE	1: mode = 1	-	
	gimbalSendMavlinkTargetingMode	none	-	luaMavsdgGimbalSendMavlinkTargetingMode	mavlinkTelem.sendGimbalTargetingMode(2)	204 MAV_CMD_DO_MOUNT_CONFIGURE	1: mode = 2	-	
	gimbalSendRcTargetingMode	none	-	luaMavsdgGimbalSendRcTargetingMode	mavlinkTelem.sendGimbalTargetingMode(3)	204 MAV_CMD_DO_MOUNT_CONFIGURE	1: mode = 3	-	
	gimbalSendGpsPointMode	none	-	luaMavsdgGimbalSendGpsPointMode	mavlinkTelem.sendGimbalTargetingMode(4)	204 MAV_CMD_DO_MOUNT_CONFIGURE	1: mode = 4	-	
	gimbalSendSysIdTargetingMode	none	-	luaMavsdgGimbalSendSysIdTargetingMode	mavlinkTelem.sendGimbalTargetingMode(5)	204 MAV_CMD_DO_MOUNT_CONFIGURE	1: mode = 5	-	
	gimbalSendPitchYawDeg	value1[number]{pitch}, value2[number]{yaw}	* *	luaMavsdgGimbalSendPitchYawDeg	mavlinkTelem.sendGimbalPitchYawDeg (value1, value2)	205 MAV_CMD_DO_MOUNT_CONTROL	1: Pitch = value1 2: Roll = 0 3: Yaw = value2 4: Altitude = 0 5: Latitude = 0 6: Longitude = 0 7: Mode = gimbalmanagerOut.mount_mode	[°] or [°/s] [°] or [°/s] [°] or [°/s] [m] [m]	
STORM32 gimbal protocol v2	gimbalsProtocolV2	value[bool]	-	luaMavsdgGimbalProtocolV2	mavlinkTelem.isStorm32GimbalProtocolV2()	-	-	-	returns_storm32_gimbal_protocol_v2
	gimbalSetProtocolV2	value[number]	-	luaMavsdgSetGimbalProtocolV2	mavlinkTelem.setStorm32GimbalProtocolV2(value)	-	-	-	sets_storm32_gimbal_protocol_v2=value
	gimbalClientsReceiving	value[bool]	-	luaMavsdgGimbalClientsReceiving	if (mavlinkTelem.gimbalmanager.is_receiving > 0) true else false	#62011 STORM32_GIMBAL_MANAGER_STATUS	any	-	3.3 sec timeout
	gimbalClientsInitialized	value[bool]	-	luaMavsdgGimbalClientsInitialized	if ((mavlinkTelem.gimbalmanager.is_receiving > 0) and mavlinkTelem.gimbalmanager.is_initialized) true else false	#62011 STORM32_GIMBAL_MANAGER_STATUS	any and no requests waiting	-	-
	gimbalClientGetInfo	table {gimbal_manager_id[integer], gimbal_id[integer], device_capability_flags[integer], manager_capability_flags[integer]}	enum MAV_COMPONENT enum MAV_COMPONENT enum MAV_STORM32_\GIMBAL_DEVICE_CAP_FLAGS enum MAV_STORM32_\GIMBAL_MANAGER_CAP_FLAGS	luaMavsdgGimbalClientGetInfo	mavlinkTelem.gimbal.compId mavlinkTelem.gimbalmanagerInfo.\device_cap_flags mavlinkTelem.gimbalmanagerInfo.\manager_cap_flags	#62010 STORM32_GIMBAL_MANAGER_INFORMATION #62010 STORM32_GIMBAL_MANAGER_INFORMATION	msg.compId (header, not payload!) msg.compId (header, not payload!) device_cap_flags manager_cap_flags	uint8_t [enum] uint8_t [enum] uint32_t [enum] uint32_t [enum]	
	gimbalClientGetStatus	table {supervisor[integer], device_flags[integer], manager_flags[integer], profile[integer]}	enum MAV_STORM32_\GIMBAL_MANAGER_CLIENT enum MAV_STORM32_\GIMBAL_DEVICE_FLAGS enum MAV_STORM32_\GIMBAL_MANAGER_FLAGS enum MAV_STORM32_\GIMBAL_MANAGER_PROFILE	luaMavsdgGimbalClientGetStatus	mavlinkTelem.gimbalmanagerStatus.supervisor mavlinkTelem.gimbalmanagerStatus.device_flags mavlinkTelem.gimbalmanagerStatus.manager_flags mavlinkTelem.gimbalmanagerStatus.profile	#62011 STORM32_GIMBAL_MANAGER_STATUS (all 4)	supervisor device_flags manager_flags profile	uint8_t [enum] uint16_t [enum] uint16_t [enum] uint8_t [enum]	0 = none 0 = default
	gimbalClientSetRetract	value[integer]{flags}	-	luaMavsdgGimbalClientSetRetract	mavlinkTelem.setStorm32GimbalClientRetract(value)	-	-	-	sets_gimbalmanagerOut.device_flags
	gimbalClientSetNeutral	value[integer]{flags}	-	luaMavsdgGimbalClientSetNeutral	mavlinkTelem.setStorm32GimbalClientNeutral(value)	-	-	-	sets_gimbalmanagerOut.device_flags
	gimbalClientSetLock	value1[integer]{roll_lock}, value2[integer]{pitch_lock}, value3[integer]{yaw_lock}	- - -	luaMavsdgGimbalClientSetLock	mavlinkTelem.setStorm32GimbalClientLock (value1, value2, value3)	-	-	-	gimbalmanagerOut.device_flags
	gimbalClientSetFlags	value[integer]{flags}	-	luaMavsdgGimbalClientSetFlags	mavlinkTelem.setStorm32GimbalClientFlags(value)	-	-	-	sets_gimbalmanagerOut.manager_flags
	gimbalClientSendPitchYawDeg	value1[number]{pitch}, value2[number]{yaw}	* *	luaMavsdgGimbalClientSendPitchYawDeg	mavlinkTelem.sendStorm32GimbalManagerPitchYawDeg(value1, value2)	#62013 STORM32_GIMBAL_MANAGER_CONTROL_PITCHYAW	target_system = _sysId target_component = gimbalmanager.compId gimbal_id = gimbal.compId client = 3 device_flags = _t_storm32GM_gdflags manager_flags = _t_storm32GM_gmflags pitch = value1*PI/180 yaw = value2*PI/180 pitch_rate = NAN yaw_rate = NAN	uint8_t uint8_t uint8_t uint8_t [enum] uint16_t [enum] uint16_t [enum] float [rad] float [rad] float [rad/s] float [rad/s]	
	gimbalClientSendControlPitchYawDeg	value1[number]{pitch}, value2[number]{yaw}	* *	luaMavsdgGimbalClientSendControlPitchYawDeg	mavlinkTelem.sendStorm32GimbalManagerControlPitchYawDeg(value1, value2)	#62012 STORM32_GIMBAL_MANAGER_CONTROL	target_system = _sysId target_component = gimbalmanager.compId gimbal_id = gimbal.compId client = 3 device_flags = _t_storm32GM_control_gdflags manager_flags = _t_storm32GM_control_gmflags q = calculated from value1 and value2 angular_velocity_x = NAN angular_velocity_y = NAN angular_velocity_z = NAN	uint8_t uint8_t uint8_t uint8_t uint16_t uint16_t float[4] float float float	
	gimbalClientSendCmdPitchYawDeg	value1[number]{pitch}, value2[number]{yaw}	* *	luaMavsdgGimbalClientSendCmdPitchYawDeg	mavlinkTelem.sendStorm32GimbalManagerCmdPitchYawDeg(value1, value2)	#62002 MAV_CMD_STORM32_DO_GIMBAL_MANAGER_CONTROL_PITCHYAW	1: Pitch angle = value1 2: Yaw angle = value2 3: Pitch rate = NaN 4: Yaw rate = NaN 5: Gimbal device flags = _t_storm32GM_cmd_gdflags 6: Gimbal manager flags = _t_storm32GM_cmd_gmflags 7: Gimbal and cliend lds = 3 * 256 + gimbal.compId	[°] [°] [°/s] [°/s]	
	gimbalDeviceSendPitchYawDeg	value1[number]{pitch}, value2[number]{yaw}	* *	luaMavsdgGimbalDeviceSendPitchYawDeg	mavlinkTelem.sendStorm32GimbalDevicePitchYawDeg (value1, value2)	#62002 STORM32_GIMBAL_DEVICE_CONTROL	target_system = _sysId target_component = gimbal.compId flags = _t_storm32GD_flags q = calculated from value1 and value2 angular_velocity_x = NAN angular_velocity_y = NAN angular_velocity_z = NAN	uint8_t uint8_t uint16_t [enum] float[4] float [rad/s] float [rad/s] float [rad/s]	

	MavSDK function	return value / parameter	Unit	MavSDK internal C++ function/wrapper	Value stems internally from or calls function(s)	MAVLink message	MAVLink msg field(s)	Data type & unit	Comments
AP EXPERIMENTAL	apSetGroundSpeed	value[number][speed]	m/s	luaMavsdKApSetGroundSpeed	mavlinkTelem.apSetGroundSpeed(value)	178 MAV_CMD_DO_CHANGE_SPEED	1: Speed Type = 1 2: Speed = value 3: Throttle = -1 4: Relative = 1 (relative)	[m/s]	
	apSimpleGotoPosIntAltRel	value1[integer][lat], value2[integer][lon], value3[number][alt]	m*e4 m*e4 m	luaMavsdKApSimpleGotoPosIntAltRel	mavlinkTelem.apSimpleGotoPosAlt (value1, value2, value3)	#73 MISSION_ITEM_INT 16 MAV_CMD_NAV_WAYPOINT	target_system = _sysid target_componetn = autopilot.compид seq = 0 frame = MAV_FRAME_GLOBAL_RELATIVE_ALT command = MAV_CMD_NAV_WAYPOINT current = 2 (=ArduPlane speciality!) autocontinue = 0 param1 = 1: Hold = 0 param2 = 2: Accept Radius = 0 param3 = 3: Pass Radius = 0 param4 = 4: Yaw = 0 x = 5: Latitude = value1 y = 6: Longitude = value2 z = 7: Altitude = value3 mission_type = MAV_MISSION_TYPE_MISSION	uint8_t uint8_t uint16_t uint8_t [enum] uint16_t [enum] uint8_t uint8_t float [s] float [m] float [m] float ["] int32_t [m*e4] int32_t [m*e4] float [m] uint8_t enum	
	apGotoPosIntAltRel	value1[integer][lat], value2[integer][lon], value3[number][alt]	*E7 *E7 m	luaMavsdKApGotoPosIntAltRel	mavlinkTelem.apGotoPosAltYawDeg (value1, value2, value3, NAN)	#86 MAVLINK_MSG_ID_SET_POSITION_ TARGET_GLOBAL_INT	time_boot_ms = get_tmr10ms()*10 target_system = _sysid target_component = autopilot.compид coordinate_frame = MAV_FRAME_GLOBAL_ RELATIVE_ALT_INT type_mask = if alt != NaN then 0x0DF8 else 0x0DFC lat_int = value1 lon_int = value2 alt = if value3 != NaN then value 3, else 1 vx = 0 vy = 0 vz = 0 afx = 0 afy = 0 afz = 0 yaw = 0 yaw_rate = 0	uint32_t [ms] uint8_t uint8_t uint8_t [enum] uint16_t [bitmap] int32_t [*E7] int32_t [*E7] float [m] float [m/s] float [m/s] float [m/s] float [m/s^2] float [m/s^2] float [m/s^2] float [rad] float [rad/s]	
	apGotoPosIntAltRelYawDeg	value1[integer][lat], value2[integer][lon], value3[number][alt], value4[number][yaw]	*E7 *E7 m °	luaMavsdKApGotoPosIntAltRelYawDeg	mavlinkTelem.apGotoPosAltYawDeg (value1, value2, value3, value4)	#86 MAVLINK_MSG_ID_SET_POSITION_ TARGET_GLOBAL_INT	time_boot_ms = get_tmr10ms()*10 target_system = _sysid target_component = autopilot.compид coordinate_frame = MAV_FRAME_GLOBAL_ RELATIVE_ALT_INT type_mask = 0x09F8 (yaw and alt OK), 0x0DF8 (yaw=NaN, alt OK), 0x09FC (yaw OK, alt=NaN), 0x0DFC (alt and yaw=NaN) lat_int = value1 lon_int = value2 alt = if value3 != NaN then value 3, else 1 vx = 0 vy = 0 vz = 0 afx = 0 afy = 0 afz = 0 yaw = if value4 != NaN then value4*Pi/180 else 0 yaw_rate = 0	uint32_t [ms] uint8_t uint8_t uint8_t enum uint16_t bitmap int32_t [*E7] int32_t [*E7] float [m] float [m/s] float [m/s] float [m/s] float [m/s^2] float [m/s^2] float [m/s^2] float [rad] float [rad/s]	
	apGotoPosIntAltRelVel	value1[integer][lat], value2[integer][lon], value3[number][alt], value4[number][vx], value5[number][vy], value6[number][vz]	*E7 *E7 m m/s m/s m/s	luaMavsdKApGotoPosIntAltRelVel	mavlinkTelem.apGotoPosAltVel (value1, value2, value3, value4, value5, value6)	#86 MAVLINK_MSG_ID_SET_POSITION_ TARGET_GLOBAL_INT	time_boot_ms = get_tmr10ms()*10 target_system = _sysid target_component = autopilot.compид coordinate_frame = MAV_FRAME_GLOBAL_ RELATIVE_ALT_INT type_mask = 0x0DC0 lat_int = value1 lon_int = value2 alt = value3 vx = value4 vy = value5 vz = value6 afx = 0 afy = 0 afz = 0 yaw = 0 yaw_rate = 0	uint32_t [ms] uint8_t uint8_t uint8_t enum uint16_t bitmap int32_t [*E7] int32_t [*E7] float [m] float [m/s] float [m/s] float [m/s] float [m/s^2] float [m/s^2] float [m/s^2] float [rad] float [rad/s]	
	apSetYawDeg	value1[number][yaw], value2[number][relative]	° bool	luaMavsdKApSetYawDeg	if (value2 ~= nil and value2) mavlinkTelem.apSetYawDeg(value1, true) else mavlinkTelem.apSetYawDeg(value1, false)	115 MAV_CMD_CONDITION_YAW	1:Angle = if arg2 then fmodf(abs(value1), 360.0f) else fmodf(value1, 360.0f) 2: Angular Speed = 0 3: Direction = if arg2 then (if value1<0 then CCW else CW) else CCW 4: Relative = if arg2 then 1 else 0	[°] [°/s] - -	
	apCopterFlyClick	none	-	luaMavsdKApCopterFlyClick	mavlinkTelem.apCopterFlyClick()	42001 MAV_CMD_SOLO_BTN_FLY_CLICK	-	-	
	apCopterFlyHold	value[number][alt]	m	luaMavsdKApCopterFlyHold	mavlinkTelem.apCopterFlyHold(value)	42002 MAV_CMD_SOLO_BTN_FLY_HOLD	1: Takeoff Altitude: value	[m]	
	apCopterFlyPause	none	-	luaMavsdKApCopterFlyPause	mavlinkTelem.apCopterFlyPause()	42003 MAV_CMD_SOLO_BTN_PAUSE_CLICK	1: Shot Mode = 0	-	
Qshot EXPERIMENTAL	qshotSendCmdConfigure	value1[integer][mode], value2[integer][shot_state]	enum MAV_QSHOT_MODE -	luaMavsdKQShotSendCmdConfigure	mavlinkTelem.sendQShotCmdConfigure (value1, value2)	62020 MAV_CMD_QSHOT_DO_CONFIGURE	1: mode = value1 2: shot_state = value2	[enum]	
	qshotSendStatus	value1[integer][mode], value2[integer][shot_state]	enum MAV_QSHOT_MODE -	luaMavsdKQShotSendStatus	mavlinkTelem.sendQShotStatus(value1, value2)	#62020 QSHOT_STATUS	1: mode = value1 2: shot_state = value2	uint16_t [enum] uint16_t	
	qshotGetStatus	table {mode[integer], shot_state[integer]}	enum MAV_QSHOT_MODE -	luaMavsdKQShotGetStatus	mavlinkTelem.qshot.mode mavlinkTelem.qshot.shot_state	#62020 QSHOT_STATUS #62020 QSHOT_STATUS	mode shot_state	uint16_t [enum] uint16_t	
	qshotButtonState	value[integer][state]	-	luaMavsdKQShotButtonState	mavlinkTelem.sendQShotButtonState(value)	#257 BUTTON CHANGE	time_boot_ms = get_tmr10ms()*10 last_change_ms = 0 state = value	uint32_t [ms] uint32_t [ms] uint8_t	
Debug EXPERIMENTAL	getTaskStats	table {time[integer], max[integer], load[integer]}	500ns 500ns 500ns	luaMavsdKGetTaskStats	mavlinkTaskRunTime() mavlinkTaskRunTimeMax() mavlinkTaskLoad()	- - -	- - -	uint16_t uint16_t uint16_t	