BEEP HTTPS POST Sensor API v0.4

HTTPS POST to this URL: https://api.beep.nl/api/sensors?key=[sensor_key]&[value_key=value]
For LoRa TTN messages, use https://api.beep.nl/api/lora_sensors

NB: for decoding BEEP LoRa HEX payload, see ttn-payload-converter.js, or code in GitHub Repository

For multiple [value_key=value] pairs, use & as separator
TTN: if the [key] value is not defined, the [hardware_serial] EUI in 'payload_fields' object is used as key=[sensor_key]
TTN: rssi/snr are taken from the LoRa data object

value_key	value definition	unit	formula before storing	remark
time	Unix timestamp in seconds	number	converted to integer value	optional, if not defined: server unix timestamp at moment of reception is used
t	temperature	°C		
t_i	temperature inside	°C		
h	humidity	%RH		
p	air pressure	mbar		
w	weight sum	kg		
l	light	lux		
bv	bat volt	milli Volt		
w_fl	weight front left	arbitrary value	weight_kg += (w_fl - w_fl_offset)*w_fl_kg_per_val	The calibration function in the app sets the offset and kg_per_val
w_fr	weight front right	arbitrary value	weight_kg += (w_fr - w_fr_offset)*w_fr_kg_per_val	The calibration function in the app sets the offset and kg_per_val
w_bl	weight back left	arbitrary value	weight_kg += (w_bl - w_bl_offset)*w_bl_kg_per_val	The calibration function in the app sets the offset and kg_per_val
w_br	weight back right	arbitrary value	weight_kg += (w_br - w_br_offset)*w_br_kg_per_val	The calibration function in the app sets the offset and kg_per_val
w_v	weight combined kg	kg	weight_kg = (w_v - sensor_offset)*kg_per_value	Use four variables above, or w_v (not both)
s_fan_4	sound fanning 4days	arbitrary value		
s_fan_6	sound fanning 6days	arbitrary value		
s_fan_9	sound fanning 9days	arbitrary value		
s_fly_a	sound flying adult	arbitrary value		
s_tot	sound total	arbitrary value		
s_bin098_146Hz	frequency bin count	arbitrary value		
s_bin146_195Hz	frequency bin count	arbitrary value		
s_bin195_244Hz	frequency bin count	arbitrary value		
s_bin244_293Hz	frequency bin count	arbitrary value		
s_bin293_342Hz	frequency bin count	arbitrary value		
s_bin342_391Hz	frequency bin count	arbitrary value		
s_bin391_439Hz	frequency bin count	arbitrary value		
s_bin439_488Hz	frequency bin count	arbitrary value		
s_bin488_537Hz	frequency bin count	arbitrary value		
s_bin537_586Hz	frequency bin count	arbitrary value		
calibrating_weight	weight value to calibrate raw sensor values	kg		Weight value in kg 'waiting' for the next measurement values to calibrate (if set)
w_fl_kg_per_val	raw weight sensor calibration factor	kg / arbitrary value		
w_fr_kg_per_val	raw weight sensor calibration factor	kg / arbitrary value		
w_bl_kg_per_val	raw weight sensor calibration factor	kg / arbitrary value		
w_br_kg_per_val	raw weight sensor calibration factor	kg / arbitrary value		
w_fl_offset	raw weight sensor zero-offset value	arbitrary value		
w_fr_offset	raw weight sensor zero-offset value	arbitrary value		
w_bl_offset	raw weight sensor zero-offset value	arbitrary value		
w_br_offset	raw weight sensor zero-offset value	arbitrary value		
bc_i	bee count in	amount of bees		
bc_o	bee count out	amount of bees		
bc_tot	bee count total	amount of bees		
weight_kg	weight kg	kg	see above calculations	
weight_kg_corrected	weight kg corrected	kg	= weight_kg - factor * temperature	factor is to be defined, based on each sensors' temperature dependency
rssi	received signal strength	dBm		
snr	signal to noise ratio	dB		

General remarks
All values will be cast to floating point values in the database and stored per second as timebase

More information
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