WTS		
Wireless Torque Sensor		
To use with GenWM master		
Ref: WTS-####		
SN: U#######	Software version: v#.##	
Paired master: SN U#######		

Texys products are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

Offset accuracy	±1.5% FS from 25°C to 85°C		
Sensitivity accuracy	±1% FS from 25°C to 85°C		
Resolution	0.1 or 1	N.m	
Max Hysteresis	±0.1	%FS	
Internal temperature accuracy	1	°C	
Internal temperature resolution	0.5	°C	
Shaft temperature accuracy	2	°C	
Shaft temperature resolution	0.1	°C	
Sampling frequency	10 to 200	Hz	
RF Frequency	868 MHz/902MHz/920MHz		
Receiver Sensitivity	-112	dBm	
RF Emission Power	0 to 14 dBm (1 to 20mW) (Default setting 14dBm)		
Battery Rating Voltage	3.6	٧	
Battery capacity @25°C	1600	mAh	
Average current consumption @25°C	Sleep mode: 0.01 Idle mode: 0.1 Run mode 10Hz: 10 Run mode 50Hz: 15 Run mode 100Hz: 20 Run mode 200Hz: 32	mA	
Dimensions	See §Mechanical design		
Material	PR751		
Weight (with battery)	170	g	
Protection	IP64		
Max rotation speed	7000rpm		
Vibration test	20Gpp 5'		
Shock	500	G	
Operating Temp	-20 to +85	°C	
Storage Temp	-20 to +85	°C	

Readings		
@ 0 N.m (after applying		
negative torque)		
@ 0 N.m (after applying		
positive torque)		
@ 182.8N.m		

Calibration setup parameters			
Resolution		N.m	

Software setup parameters			
RF channel jump sequence	0	-	
System ID	0	-	
Slave ID	1	-	
Accelerometer idle threshold	1498	mG	
Accelerometer wake-up threshold	1999	mG	



Ordering ref:

WTS - Torque range in N.m

ex: WTS-3000

Changing parameters

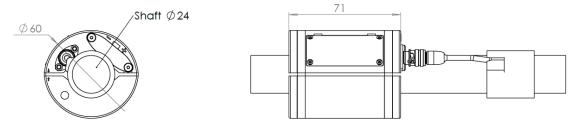
Must be setup according to Texense's CAN protocol, or by using the Texense Android Smart Tool (tAST®) with your android device. Contact us at info@texense.com

Sensor parameters:

N°	Parameter	Raw values	Comments	Default value
	0x80 RF channel jump sequence	0x00	Sequence 0	Default
		0x01	Sequence 1	
		0x02	Sequence 2	
0.400		0x11	Fixed to channel 1	
0x80		0x12	Fixed to channel 2	
		0x13	Fixed to channel 3	
		0x14	Fixed to channel 4	
		0x15	Fixed to channel 5	
0x81	System ID	0 to 15		Default: 0
0x82	Slave ID	1 to 22		Default: 1
0x84	Accelerometer idle threshold	0x00 to 0xFF	7.843mG/bit	Default: 0xBF (1498mG)
0x85	Accelerometer wake-up threshold	0x00 to 0xFF	7.843mG/bit	Default: 0xFF (1999mG)

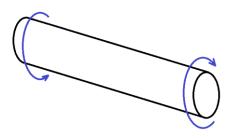
Mechanical design

The overall dimension depends on the diameter of the shaft. The minimum shaft diameter is 24mm and maximum is 50mm:



Torque sign convention

Positive torque:



Negative torque:

