

INDEX	LABEL	DESCRIPTION	RANGE
0	X0	Position of the body frame along the X-axis of global coordinate frame.	+/- 3.0 m
1	X1	Position of the body frame along the Y-axis of global coordinate frame.	+/- 3.0 m
2	X2	Position of the body frame along the Z-axis of global coordinate frame.	+/- 3.0 m
3	X3	Velocity of the body frame along the X-axis of global coordinate frame.	+/- 1.0 m/s
4	X4	Velocity of the body frame along the Y-axis of global coordinate frame.	+/- 1.0 m/s
5	X5	Velocity of the body frame along the Z-axis of global coordinate frame.	+/- 1.0 m/s
6	ACX	Acceleration of inertial frame along the X-axis of global coordinate frame.	+/- 20.0 m/s ²
7	ACY	Acceleration of inertial frame along the Y-axis of global coordinate frame.	+/- 20.0 m/s ²
8	ACZ	Acceleration of inertial frame along the Z-axis of global coordinate frame.	+/- 20.0 m/s ²
9	X9	NOT USED	
10	X10	NOT USED	
11	X11	NOT USED	
12	X12	NOT USED	
13	X13	NOT USED	
14	X14	NOT USED	
15	X15	NOT USED	
16	FORCE_GRIP	Pressure sensed at grip (HW_VERSION >= 6.0)	
17	FORCE_GRIP_N	Scaled grip force sensor.	
18	Q0	Scalar component of Quaternion. [qw qx qy qz]	+/- 1.0
19	Q1	X-element of the vector component of Quaternion. [qw qx qy qz]	+/- 1.0
20	Q2	Y-element of the vector component of Quaternion. [qw qx qy qz]	+/- 1.0
21	Q3	Z-element of the vector component of Quaternion. [qw qx qy qz]	+/- 1.0
22	SHADOW	Length of shadow. Distance between tip and body projected against XY-plane.	[0.0, 0.084] m
23	VX	Virtual velocity along the X-axis of global coordinate frame.	+/- 1.0 m/s
24	VY	Virtual velocity along the Y-axis of global coordinate frame.	+/- 1.0 m/s
25	VZ	Virtual velocity along the Z-axis of global coordinate frame.	+/- 1.0 m/s
26	PRES	Scaled tip force sensor.	[0.0, 5.3] N
27	FSN	NOT USED	
28	TOUCHING	Touching indicator.	0 or 1
29	TX	Position of the Tip along the X-axis of global coordinate frame.	+/- 3.0 m
30	TY	Position of the Tip along the Y-axis of global coordinate frame.	+/- 3.0 m
31	TZ	Position of the Tip along the Z-axis of global coordinate frame.	+/- 3.0 m
32	BX	Position of the Body frame along the X-axis of global coordinate frame. Same as X0	+/- 3.0 m
33	BY	Position of the Body frame along the Y-axis of global coordinate frame. Same as X1	+/- 3.0 m
34	BZ	Position of the Body frame along the Z-axis of global coordinate frame. Same as X2	+/- 3.0 m
35	YAW	Yaw angle of pen.	+/-180.0 °
36	MOTION	Motion intensity.	[0.0, 1.0]
37	ANGLE	Angle of pen's main axis to surface.	+/- 90.0 °
38	Z0	Scaled linear acceleration sensed along the X-axis of the sensor frame.	+/- 19.62 m/s ²
39	Z1	Scaled linear acceleration sensed along the Y-axis of the sensor frame.	+/- 19.62 m/s ²
40	Z2	Scaled linear acceleration sensed along the Z-axis of the sensor frame.	+/- 19.62 m/s ²
41	Z3	Scaled angular velocity sensed around the X-axis of the sensor frame.	+/- 1000.0 °/s
42	Z4	Scaled angular velocity sensed around the Y-axis of the sensor frame.	+/- 1000.0 °/s
43	Z5	Scaled angular velocity sensed around the Z-axis of the sensor frame.	+/- 1000.0 °/s
44	Z6	Magnetic intensity sensed against the X-axis of the sensor frame.	+/- 2.0
45	Z7	Magnetic intensity sensed against the Y-axis of the sensor frame.	+/- 2.0
46	Z8	Magnetic intensity sensed against the Z-axis of the sensor frame.	+/- 2.0
47	ACC1_X	Raw linear acceleration sensed along the X-axis of the front sensor frame.	+/- 32768
48	ACC1_Y	Raw linear acceleration sensed along the Y-axis of the front sensor frame.	+/- 32768
49	ACC1_Z	Raw linear acceleration sensed along the Z-axis of the front sensor frame.	+/- 32768
50	ACC2_X	Raw linear acceleration sensed along the X-axis of the rear sensor frame.	+/- 8192
51	ACC2_Y	Raw linear acceleration sensed along the Y-axis of the rear sensor frame.	+/- 8192
52	ACC2_Z	Raw linear acceleration sensed along the Z-axis of the rear sensor frame.	+/- 8192
53	GYRO_X	Raw angular velocity sensed around the X-axis of the sensor frame.	+/- 32768
54	GYRO_Y	Raw angular velocity sensed around the Y-axis of the sensor frame.	+/- 32768
55	GYRO_Z	Raw angular velocity sensed around the Z-axis of the sensor frame.	+/- 32768
56	MAG_X	Raw magnetic intensity sensed against the X-axis of the sensor frame.	+/- 8192
57	MAG_Y	Raw magnetic intensity sensed against the Y-axis of the sensor frame.	+/- 8192
58	MAG_Z	Raw magnetic intensity sensed against the Z-axis of the sensor frame.	+/- 8192
59	FORCE	Raw pressure sensor.	[0.0, 4096]
60	TIME	Sample counter.	[0, 255]