MODBUS - Address and Function code details

BM series

DOC.60451-08/21

IMPORTANT

This document is an extension of Modbus manual 60427.

Address and function codes details BM

Appendix A:	Parameter factory setting, Address and Function code details for BM 202102012	

	Preset #	Parameter	Address	Factory setting	Address Min value	Address Max value	Function code
Fastening	1	Strategy 0: TC/AC , 1: AC/TM	1	0	1001	2001	Read : 0x03 Write : 0x06
		Torque	2	Auto	1002	2002	Read : 0x03 Write : 0x06
		Torque min/max (%)	3	0	1003	2003	Read : 0x03 Write : 0x06
		Target angle(degree)	4	0	1004	2004	Read : 0x03 Write : 0x06
		Min angle(degree)	5	0	1005	2005	Read : 0x03 Write : 0x06
		Max angle(degree)	6	0	1006	2006	Read : 0x03 Write : 0x06
		Snug torque	7	0	1007	2007	Read : 0x03 Write : 0x06
		Speed (rpm)	8	Auto	1008	2008	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	9	0	1009	2009	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	10	0	1010	2010	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	11	0	1011	2011	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	12	Auto	1012	2012	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	13	50	1013	2013	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	14	Auto	1014	2014	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	15	100	1015	2015	Read : 0x03 Write : 0x06
	2	TC/AM_AC/TM	16	0	1016	2016	Read : 0x03 Write : 0x06
		Torque	17	Auto	1017	2017	Read : 0x03 Write : 0x06
		Torque min/max (%)	18	0	1018	2018	Read : 0x03 Write : 0x06
		Target angle(degree)	19	0	1019	2019	Read : 0x03 Write : 0x06
		Min angle(degree)	20	0	1020	2020	Read : 0x03 Write : 0x06

		Max angle(degree)	21	0	1021	2021	Read : 0x03 Write : 0x06
		Snug torque	22	0	1022	2022	Read : 0x03 Write : 0x06
		Speed (rpm)	23	Auto	1023	2023	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	24	0	1024	2024	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	25	0	1025	2025	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	26	0	1026	2026	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	27	Auto	1027	2027	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	28	50	1028	2028	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	29	Auto	1029	2029	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	30	100	1030	2030	Read : 0x03 Write : 0x06
		TC/AM_AC/TM	31	0	1031	2031	Read : 0x03 Write : 0x06
		Torque	32	Auto	1032	2032	Read : 0x03 Write : 0x06
		Torque min/max (%)	33	0	1033	2033	Read : 0x03 Write : 0x06
		Target angle(degree)	34	0	1034	2034	Read : 0x03 Write : 0x06
		Min angle(degree)	35	0	1035	2035	Read : 0x03 Write : 0x06
		Max angle(degree)	36	0	1036	2036	Read : 0x03 Write : 0x06
		Snug torque	37	0	1037	2037	Read : 0x03 Write : 0x06
	3	Speed (rpm)	38	Auto	1038	2038	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	39	0	1039	2039	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	40	0	1040	2040	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	41	0	1041	2041	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	42	Auto	1042	2042	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	43	50	1043	2043	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	44	Auto	1044	2044	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	45	100	1045	2045	Read : 0x03 Write : 0x06
		TC/AM_AC/TM	46	0	1046	2046	Read : 0x03 Write : 0x06
		Torque	47	Auto	1047	2047	Read : 0x03 Write : 0x06
		Torque min/max (%)	48	0	1048	2048	Read : 0x03 Write : 0x06
		Target angle(degree)	49	0	1049	2049	Read : 0x03 Write : 0x06
		Min angle(degree)	50	0	1050	2050	Read : 0x03 Write : 0x06
		Max angle(degree)	51	0	1051	2051	Read : 0x03 Write : 0x06
		Snug torque	52	0	1052	2052	Read : 0x03 Write : 0x06
	4	Speed (rpm)	53	Auto	1053	2053	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	54	0	1054	2054	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	55	0	1055	2055	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	56	0	1056	2056	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	57	Auto	1057	2057	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	58	50	1058	2058	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	59	Auto	1059	2059	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	60	100	1060	2060	Read : 0x03 Write : 0x06
		TC/AM_AC/TM	61	0	1061	2061	Read : 0x03 Write : 0x06
		Torque	62	Auto	1062	2062	Read : 0x03 Write : 0x06
		Torque min/max (%)	63	0	1063	2063	Read : 0x03 Write : 0x06
	5	Target angle(degree)	64	0	1064	2064	Read : 0x03 Write : 0x06
		Min angle(degree)	65	0	1065	2065	Read : 0x03 Write : 0x06
		Max angle(degree)	66	0	1066	2066	Read : 0x03 Write : 0x06
		Snug torque	67	0	1067	2067	Read : 0x03 Write : 0x06

		Speed (rpm)	68	Auto	1068	2068	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	69	0	1069	2069	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	70	0	1070	2070	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	71	0	1071	2071	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	72	Auto	1072	2072	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	73	50	1073	2073	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	74	Auto	1074	2074	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	75	100	1075	2075	Read : 0x03 Write : 0x06
	6	TC/AM_AC/TM	76	0	1076	2076	Read : 0x03 Write : 0x06
		Torque	77	Auto	1077	2077	Read : 0x03 Write : 0x06
		Torque min/max (%)	78	0	1078	2078	Read : 0x03 Write : 0x06
		Target angle(degree)	79	0	1079	2079	Read : 0x03 Write : 0x06
		Min angle(degree)	80	0	1080	2080	Read : 0x03 Write : 0x06
		Max angle(degree)	81	0	1081	2081	Read : 0x03 Write : 0x06
		Snug torque	82	0	1082	2082	Read : 0x03 Write : 0x06
		Speed (rpm)	83	Auto	1083	2083	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	84	0	1084	2084	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	85	0	1085	2085	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	86	0	1086	2086	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	87	Auto	1087	2087	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	88	50	1088	2088	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	89	Auto	1089	2089	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	90	100	1090	2090	Read : 0x03 Write : 0x06
	7	TC/AM_AC/TM	91	0	1091	2091	Read : 0x03 Write : 0x06
		Torque	92	Auto	1092	2092	Read : 0x03 Write : 0x06
		Torque min/max (%)	93	0	1093	2093	Read : 0x03 Write : 0x06
		Target angle(degree)	94	0	1094	2094	Read : 0x03 Write : 0x06
		Min angle(degree)	95	0	1095	2095	Read : 0x03 Write : 0x06
		Max angle(degree)	96	0	1096	2096	Read : 0x03 Write : 0x06
		Snug torque	97	0	1097	2097	Read : 0x03 Write : 0x06
		Speed (rpm)	98	Auto	1098	2098	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	99	0	1099	2099	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	100	0	1100	2100	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	101	0	1101	2101	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	102	Auto	1102	2102	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	103	50	1103	2103	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	104	Auto	1104	2104	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	105	100	1105	2105	Read : 0x03 Write : 0x06
	8	TC/AM_AC/TM	106	0	1106	2106	Read : 0x03 Write : 0x06
		Torque	107	Auto	1107	2107	Read : 0x03 Write : 0x06
		Torque min/max (%)	108	0	1108	2108	Read : 0x03 Write : 0x06
		Target angle(degree)	109	0	1109	2109	Read : 0x03 Write : 0x06
		Min angle(degree)	110	0	1110	2110	Read : 0x03 Write : 0x06
		Max angle(degree)	111	0	1111	2111	Read : 0x03 Write : 0x06
		Snug torque	112	0	1112	2112	Read : 0x03 Write : 0x06
		Speed (rpm)	113	Auto	1113	2113	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	114	0	1114	2114	Read : 0x03 Write : 0x06

		Free fastenig speed(rpm)	115	0	1115	2115	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	116	0	1116	2116	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	117	Auto	1117	2117	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	118	50	1118	2118	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	119	Auto	1119	2119	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	120	100	1120	2120	Read : 0x03 Write : 0x06
	9	TC/AM_AC/TM	121	0	1121	2121	Read : 0x03 Write : 0x06
		Torque	122	Auto	1122	2122	Read : 0x03 Write : 0x06
		Torque min/max (%)	123	0	1123	2123	Read : 0x03 Write : 0x06
		Target angle(degree)	124	0	1124	2124	Read : 0x03 Write : 0x06
		Min angle(degree)	125	0	1125	2125	Read : 0x03 Write : 0x06
		Max angle(degree)	126	0	1126	2126	Read : 0x03 Write : 0x06
		Snug torque	127	0	1127	2127	Read : 0x03 Write : 0x06
		Speed (rpm)	128	Auto	1128	2128	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	129	0	1129	2129	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	130	0	1130	2130	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	131	0	1131	2131	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	132	Auto	1132	2132	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	133	50	1133	2133	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	134	Auto	1134	2134	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	135	100	1135	2135	Read : 0x03 Write : 0x06
	10	TC/AM_AC/TM	136	0	1136	2136	Read : 0x03 Write : 0x06
		Torque	137	Auto	1137	2137	Read : 0x03 Write : 0x06
		Torque min/max (%)	138	0	1138	2138	Read : 0x03 Write : 0x06
		Target angle(degree)	139	0	1139	2139	Read : 0x03 Write : 0x06
		Min angle(degree)	140	0	1140	2140	Read : 0x03 Write : 0x06
		Max angle(degree)	141	0	1141	2141	Read : 0x03 Write : 0x06
		Snug torque	142	0	1142	2142	Read : 0x03 Write : 0x06
		Speed (rpm)	143	Auto	1143	2143	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	144	0	1144	2144	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	145	0	1145	2145	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	146	0	1146	2146	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	147	Auto	1147	2147	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	148	50	1148	2148	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	149	Auto	1149	2149	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	150	100	1150	2150	Read : 0x03 Write : 0x06
	11	TC/AM_AC/TM	151	0	1151	2151	Read : 0x03 Write : 0x06
		Torque	152	Auto	1152	2152	Read : 0x03 Write : 0x06
		Torque min/max (%)	153	0	1153	2153	Read : 0x03 Write : 0x06
		Target angle(degree)	154	0	1154	2154	Read : 0x03 Write : 0x06
		Min angle(degree)	155	0	1155	2155	Read : 0x03 Write : 0x06
		Max angle(degree)	156	0	1156	2156	Read : 0x03 Write : 0x06
		Snug torque	157	0	1157	2157	Read : 0x03 Write : 0x06
		Speed (rpm)	158	Auto	1158	2158	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	159	0	1159	2159	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	160	0	1160	2160	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	161	0	1161	2161	Read : 0x03 Write : 0x06

		Seating point (%) 10-90	162	Auto	1162	2162	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	163	50	1163	2163	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	164	Auto	1164	2164	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	165	100	1165	2165	Read : 0x03 Write : 0x06
	12	TC/AM_AC/TM	166	0	1166	2166	Read : 0x03 Write : 0x06
		Torque	167	Auto	1167	2167	Read : 0x03 Write : 0x06
		Torque min/max (%)	168	0	1168	2168	Read : 0x03 Write : 0x06
		Target angle(degree)	169	0	1169	2169	Read : 0x03 Write : 0x06
		Min angle(degree)	170	0	1170	2170	Read : 0x03 Write : 0x06
		Max angle(degree)	171	0	1171	2171	Read : 0x03 Write : 0x06
		Snug torque	172	0	1172	2172	Read : 0x03 Write : 0x06
		Speed (rpm)	173	Auto	1173	2173	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	174	0	1174	2174	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	175	0	1175	2175	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	176	0	1176	2176	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	177	Auto	1177	2177	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	178	50	1178	2178	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	179	Auto	1179	2179	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	180	100	1180	2180	Read : 0x03 Write : 0x06
	13	TC/AM_AC/TM	181	0	1181	2181	Read : 0x03 Write : 0x06
		Torque	182	Auto	1182	2182	Read : 0x03 Write : 0x06
		Torque min/max (%)	183	0	1183	2183	Read : 0x03 Write : 0x06
		Target angle(degree)	184	0	1184	2184	Read : 0x03 Write : 0x06
		Min angle(degree)	185	0	1185	2185	Read : 0x03 Write : 0x06
		Max angle(degree)	186	0	1186	2186	Read : 0x03 Write : 0x06
		Snug torque	187	0	1187	2187	Read : 0x03 Write : 0x06
		Speed (rpm)	188	Auto	1188	2188	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	189	0	1189	2189	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	190	0	1190	2190	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	191	0	1191	2191	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	192	Auto	1192	2192	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	193	50	1193	2193	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	194	Auto	1194	2194	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	195	100	1195	2195	Read : 0x03 Write : 0x06
	14	TC/AM_AC/TM	196	0	1196	2196	Read : 0x03 Write : 0x06
		Torque	197	Auto	1197	2197	Read : 0x03 Write : 0x06
		Torque min/max (%)	198	0	1198	2198	Read : 0x03 Write : 0x06
		Target angle(degree)	199	0	1199	2199	Read : 0x03 Write : 0x06
		Min angle(degree)	200	0	1200	2200	Read : 0x03 Write : 0x06
		Max angle(degree)	201	0	1201	2201	Read : 0x03 Write : 0x06
		Snug torque	202	0	1202	2202	Read : 0x03 Write : 0x06
		Speed (rpm)	203	Auto	1203	2203	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	204	0	1204	2204	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	205	0	1205	2205	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	206	0	1206	2206	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	207	Auto	1207	2207	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	208	50	1208	2208	Read : 0x03 Write : 0x06

		Ramp up speed(rpm) 20-80% of max	209	Auto	1209	2209	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	210	100	1210	2210	Read : 0x03 Write : 0x06
	15	TC/AM_AC/TM	211	0	1211	2211	Read : 0x03 Write : 0x06
		Torque	212	Auto	1212	2212	Read : 0x03 Write : 0x06
		Torque min/max (%)	213	0	1213	2213	Read : 0x03 Write : 0x06
		Target angle(degree)	214	0	1214	2214	Read : 0x03 Write : 0x06
		Min angle(degree)	215	0	1215	2215	Read : 0x03 Write : 0x06
		Max angle(degree)	216	0	1216	2216	Read : 0x03 Write : 0x06
		Snug torque	217	0	1217	2217	Read : 0x03 Write : 0x06
		Speed (rpm)	218	Auto	1218	2218	Read : 0x03 Write : 0x06
		Free fastenig angle(degree)	219	0	1219	2219	Read : 0x03 Write : 0x06
		Free fastenig speed(rpm)	220	0	1220	2220	Read : 0x03 Write : 0x06
		Soft start(1-300ms)	221	0	1221	2221	Read : 0x03 Write : 0x06
		Seating point (%) 10-90	222	Auto	1222	2222	Read : 0x03 Write : 0x06
		Torque rising rate(ms) 50-200	223	50	1223	2223	Read : 0x03 Write : 0x06
		Ramp up speed(rpm) 20-80% of max	224	Auto	1224	2224	Read : 0x03 Write : 0x06
		Torque compensation (%) 90-110	225	100	1225	2225	Read : 0x03 Write : 0x06
Controller	Setting	Preset change by barcode	238	0	1238	2238	Read : 0x03 Write : 0x06
		Driver lock after wifi disconnect (sec)	239	0	1239	2239	Read : 0x03 Write : 0x06
		Select display preset number	240	0	1240	2240	Read : 0x03 Write : 0x06
		Loosening / Fastening Switch type	241	0	1241	2241	Read : 0x03 Write : 0x06
		Run time limit / Forward (sec)	242	10	1242	2242	Read : 0x03 Write : 0x06
		Run time limit / Reverse (sec)	243	10	1243	2243	Read : 0x03 Write : 0x06
		Motor stall time limit (sec)	244	0,2	1244	2244	Read : 0x03 Write : 0x06
		Loosening speed (rpm)	245	Auto	1245	2245	Read : 0x03 Write : 0x06
		Motor acceleration (ms)	246	100	1246	2246	Read : 0x03 Write : 0x06
		Error display reset time	247	2	1247	2247	Read : 0x03 Write : 0x06
		Torque compensation master (%) 90-110	248	100	1248	2248	Read : 0x03 Write : 0x06
		Initial preset # when power ON	249	1	1249	2249	Read : 0x03 Write : 0x06
		LED / Light on time	250	10	1250	2250	Read : 0x03 Write : 0x06
		Driver model no. 1-99	251	Select	1251	2251	Read : 0x03 Write : 0x06
		Parameter initialize to factory setting	252	0	1252	2252	Read : 0x03 Write : 0x06
		Torque holding time(ms) 1-20	253	2	1253	2253	Read : 0x03 Write : 0x06
		Auto speed on torque setting	254	1	1254	2254	Read : 0x03 Write : 0x06
		Judge fastening min turns	255	0	1255	2255	Read : 0x03 Write : 0x06
		Fastening stop error	256	0	1256	2256	Read : 0x03 Write : 0x06
		Reverse Lock	257	0	1257	2257	Read : 0x03 Write : 0x06
		LCD button lock	258	0	1258	2258	Read : 0x03 Write : 0x06
		Auto data output	259	0	1259	2259	Read : 0x03 Write : 0x06
		Torque unit	260	0	1260	2260	Read : 0x03 Write : 0x06
		Screw type	261	0	1261	2261	Read : 0x03 Write : 0x06
		Screw count	262	10	1262	2262	Read : 0x03 Write : 0x06
		Sleep time	263	0	1263	2263	Read : 0x03 Write : 0x06
		Auto lock	264	0	1264	2264	Read : 0x03 Write : 0x06
		Select back up data type	265	6	1265	2265	Read : 0x03 Write : 0x06
		Trigger start delay time	266	0	1266	2266	Read : 0x03 Write : 0x06

Network	Setting	Network enable	267	0	1267	2267	Read : 0x03 Write : 0x06
		Static / DHCP	268	0	1268	2268	Read : 0x03 Write : 0x06
	Tool setting	IP Address1	269	192	1269	2269	Read : 0x03 Write : 0x06
		IP Address2	270	168	1270	2270	Read : 0x03 Write : 0x06
		IP Address3	271	1	1271	2271	Read : 0x03 Write : 0x06
		IP Address4	272	100	1272	2272	Read : 0x03 Write : 0x06
		subnet mask 1	273	255	1273	2273	Read : 0x03 Write : 0x06
		subnet mask 2	274	255	1274	2274	Read : 0x03 Write : 0x06
		subnet mask 3	275	255	1275	2275	Read : 0x03 Write : 0x06
		subnet mask 4	276	0	1276	2276	Read : 0x03 Write : 0x06
		Gateway 1	277	192	1277	2277	Read : 0x03 Write : 0x06
		Gateway 2	278	168	1278	2278	Read : 0x03 Write : 0x06
		Gateway 3	279	1	1279	2279	Read : 0x03 Write : 0x06
		Gateway 4	280	1	1280	2280	Read : 0x03 Write : 0x06
		Port	281	5000	1281	2281	Read : 0x03 Write : 0x06
	AP setting	SSID (32 char)	287-302				Read : 0x03 Write : 0x06
		Password (32 char)	303-318				Read : 0x03 Write : 0x06
		Country type	319	0	1319	2319	Read : 0x03 Write : 0x06
	WEB Page	Password	320	0	1320	2320	Read : 0x03 Write : 0x06
Multi SQ	PG1	MS PG 1	321	0	1321	2321	Read : 0x03 Write : 0x06
		MS PG 2	322	0	1322	2322	Read : 0x03 Write : 0x06
		MS PG 3	323	0	1323	2323	Read : 0x03 Write : 0x06
		MS PG 4	324	0	1324	2324	Read : 0x03 Write : 0x06
		MS PG 5	325	0	1325	2325	Read : 0x03 Write : 0x06
		MS PG 6	326	0	1326	2326	Read : 0x03 Write : 0x06
		MS PG 7	327	0	1327	2327	Read : 0x03 Write : 0x06
		MS PG 8	328	0	1328	2328	Read : 0x03 Write : 0x06
		MS PG 9	329	0	1329	2329	Read : 0x03 Write : 0x06
		MS PG 10	330	0	1330	2330	Read : 0x03 Write : 0x06
	PG2	MS PG 11	331	0	1331	2331	Read : 0x03 Write : 0x06
		MS PG 12	332	0	1332	2332	Read : 0x03 Write : 0x06
		MS PG 13	333	0	1333	2333	Read : 0x03 Write : 0x06
		MS PG 14	334	0	1334	2334	Read : 0x03 Write : 0x06
		MS PG 15	335	0	1335	2335	Read : 0x03 Write : 0x06
		MS PG 16	336	0	1336	2336	Read : 0x03 Write : 0x06
		MS PG 17	337	0	1337	2337	Read : 0x03 Write : 0x06
		MS PG 18	338	0	1338	2338	Read : 0x03 Write : 0x06
		MS PG 19	339	0	1339	2339	Read : 0x03 Write : 0x06
		MS PG 20	340	0	1340	2340	Read : 0x03 Write : 0x06
ERROR		ERROR 1	341	0	1341	2341	Read : 0x03 Write : 0x06
		ERROR 2	342	0	1342	2342	Read : 0x03 Write : 0x06
		ERROR 3	343	0	1343	2343	Read : 0x03 Write : 0x06
		ERROR 4	344	0	1344	2344	Read : 0x03 Write : 0x06
		ERROR 5	345	0	1345	2345	Read : 0x03 Write : 0x06
		ERROR 6	346	0	1346	2346	Read : 0x03 Write : 0x06
		ERROR 7	347	0	1347	2347	Read : 0x03 Write : 0x06
		ERROR 8	348	0	1348	2348	Read : 0x03 Write : 0x06

		Controller model	349	Auto	1349	2349	Read : 0x03 Write : 0x06
Advanced preset 1	Free reverse rotation	Speed (rpm)	500	0	1500	2500	Read : 0x03 Write : 0x06
		Angle (turn) 0 - 20	501	0	1501	2501	Read : 0x03 Write : 0x06
	Thread tapping	Min torque	502	0	1502	2502	Read : 0x03 Write : 0x06
		Max torque	503	0	1503	2503	Read : 0x03 Write : 0x06
		Speed (rpm)	504	0	1504	2504	Read : 0x03 Write : 0x06
		Finish Torque	505	0	1505	2505	Read : 0x03 Write : 0x06
		Angle start from Thread tapping	506	0	1506	2506	Read : 0x03 Write : 0x06
	Engaging torque detection	Speed (rpm)	507	0	1507	2507	Read : 0x03 Write : 0x06
		Torque(%)	508	0	1508	2508	Read : 0x03 Write : 0x06
		Angle limit (turn) 0 - 20	509	0	1509	2509	Read : 0x03 Write : 0x06
		Time limit (sec)	510	0	1510	2510	Read : 0x03 Write : 0x06
		Angle start from engaging	511	0	1511	2511	Read : 0x03 Write : 0x06
	Angel after torque up	Speed (rpm)	512	0	1512	2512	Read : 0x03 Write : 0x06
		Angle (degree) 0-3600	513	0	1513	2513	Read : 0x03 Write : 0x06
		Direction	514	0	1514	2514	Read : 0x03 Write : 0x06
Advanced preset 2	Free reverse rotation	Speed (rpm)	515	0	1515	2515	Read : 0x03 Write : 0x06
		Angle (turn) 0 - 20	516	0	1516	2516	Read : 0x03 Write : 0x06
	Thread tapping	Min torque	517	0	1517	2517	Read : 0x03 Write : 0x06
		Max torque	518	0	1518	2518	Read : 0x03 Write : 0x06
		Speed (rpm)	519	0	1519	2519	Read : 0x03 Write : 0x06
		Finish Torque	520	0	1520	2520	Read : 0x03 Write : 0x06
		Angle start from Thread tapping	521	0	1521	2521	Read : 0x03 Write : 0x06
	Engaging torque detection	Speed (rpm)	522	0	1522	2522	Read : 0x03 Write : 0x06
		Torque(%)	523	0	1523	2523	Read : 0x03 Write : 0x06
		Angle limit (turn) 0 - 20	524	0	1524	2524	Read : 0x03 Write : 0x06
		Time limit (sec)	525	0	1525	2525	Read : 0x03 Write : 0x06
		Angle start from engaging	526	0	1526	2526	Read : 0x03 Write : 0x06
	Angel after torque up	Speed (rpm)	527	0	1527	2527	Read : 0x03 Write : 0x06
		Angle (degree) 0-3600	528	0	1528	2528	Read : 0x03 Write : 0x06
		Direction	529	0	1529	2529	Read : 0x03 Write : 0x06
continue	...	...	...	...	...	...	...
Advanced preset 15	Free reverse rotation	Speed (rpm)	710	0	1710	2710	Read : 0x03 Write : 0x06
		Angle (turn) 0 - 20	711	0	1711	2711	Read : 0x03 Write : 0x06
	Thread tapping	Min torque	712	0	1712	2712	Read : 0x03 Write : 0x06
		Max torque	713	0	1713	2713	Read : 0x03 Write : 0x06
		Speed (rpm)	714	0	1714	2714	Read : 0x03 Write : 0x06
		Finish Torque	715	0	1715	2715	Read : 0x03 Write : 0x06
		Angle start from Thread tapping	716	0	1716	2716	Read : 0x03 Write : 0x06
	Engaging torque detection	Speed (rpm)	717	0	1717	2717	Read : 0x03 Write : 0x06
		Torque(%)	718	0	1718	2718	Read : 0x03 Write : 0x06
		Angle limit (turn) 0 - 20	719	0	1719	2719	Read : 0x03 Write : 0x06

		Time limit (sec)	720	0	1720	2720	Read : 0x03 Write : 0x06
		Angle start from engaging	721	0	1721	2721	Read : 0x03 Write : 0x06
	Angel after torque up	Speed (rpm)	722	0	1722	2722	Read : 0x03 Write : 0x06
		Angle (degree) 0-3600	723	0	1723	2723	Read : 0x03 Write : 0x06
		Direction	724	0	1724	2724	Read : 0x03 Write : 0x06
Firmware Version			725	Auto			Read : 0x03
Monitoring data	Alarm data	Alarm no.	3100				Read : 0x04
		Waring no.	3101				Read : 0x04
	Data updated on events (Start, F/L, Preset, Torque up)	Event count no. (1- 65,535)	3200				Read : 0x04
		Fastening time (ms)	3201				Read : 0x04
		Preset no.	3202				Read : 0x04
		Target torque (* x 100)	3203				Read : 0x04
		Converted torque (* x 100)	3204				Read : 0x04
		Target speed (rpm)	3205				Read : 0x04
		A1 (degree)	3206				Read : 0x04
		A2 (degree)	3207				Read : 0x04
		A3 (degree)	3208				Read : 0x04
		Screw count value	3209				Read : 0x04
		Error	3210				Read : 0x04
		Forward / Loosening	3211				Read : 0x04
		Status Other = 0, Fastening complete = 1, Fastening NG (E330,332,333,334,335,336,337,338,339)= 2, F/L change = 3, Preset change = 4, Alarm reset = 5, Error(except fastening NG) = 6 Barcode = 7 Screw count-1 = 8	3212				Read : 0x04
		Snug torque angle (degree)	3213				Read : 0x04
		Barcode 1, 2 ex) 0x3132 = (char) "12" (Barcode 1 = "1" , Barcode 2 = "2")	3214				Read : 0x04
		Barcode 3, 4	3215				Read : 0x04
		…					Read : 0x04
		Barcode 31, 32	3229				Read : 0x04
	Realtime Data	Converted torque (* x 100)	3300				Read : 0x04
		Speed (rpm)	3301				Read : 0x04
		Motor current (mA)	3302				Read : 0x04
		Current Preset #	3303				Read : 0x04
		Torque up	3304				Read : 0x04
		Fastening OK	3305				Read : 0x04
		Ready	3306				Read : 0x04
		Motor RUN	3307				Read : 0x04

		Alarm no.	3308		Read : 0x04
		Forward / Loosening	3309		Read : 0x04
		Screw count value	3310		Read : 0x04
		Motor Temperature	3313		Read : 0x04
Temporary parameter in RAM	Virtual Preset #1	TC/AM_AC/TM	731		Write : 0x06
		Torque	732		Write : 0x06
		Torque min/max (%)	733		Write : 0x06
		Target angle(degree)	734		Write : 0x06
		Min angle(degree)	735		Write : 0x06
		Max angle(degree)	736		Write : 0x06
		Snug torque(%)	737		Write : 0x06
		Speed (rpm)	738		Write : 0x06
		Free fastenig angle(degree)	739		Write : 0x06
		Free fastenig speed(rpm)	740		Write : 0x06
		Soft start(1-300ms)	741		Write : 0x06
		Seating point (%) 10-90	742		Write : 0x06
		Torque rising rate(ms) 50-200	743		Write : 0x06
		Torque holding time(ms) 1-20	744		Write : 0x06
		Torque compensation (%) 90-110	745		Write : 0x06
Remote control	Operation	Alarm reset	4000		Write : 0x06
		Driver Lock	4001		Write : 0x06
		No use (Factory only)	4002		Write : 0x06
		Remote start	4003		Write : 0x06
		Preset # change (Not available on RUN)	4004		Write : 0x06
		Forward / Loosening	4005		Write : 0x06
Barcode Control	Operation	Barcode list number	5000		Read : 0x03 Write : 0x06
		Barcode preset number	5001		Read : 0x03 Write : 0x06
		Barcode judge start position	5002		Read : 0x03 Write : 0x06
		Barcode judge end position	5003		Read : 0x03 Write : 0x06
		Barcode read start	5004		Read : 0x03 Write : 0x06
		barcode list clear	5005		Write : 0x06
		barcode data save	5006		Write : 0x06
		Barcode data 1	5007		Read : 0x03
		Barcode data 2	5008		Read : 0x03
		…	…		Read : 0x03
		Barcode data 32	5038		Read : 0x03

SETTING DETAILS

Setting details for all Torque values :

torque*100 : Ex: (value) 1234 -> (set) 12.34

Controller settings

Setting	Preset change by barcode	238	0: OFF
	Driver lock after wifi disconnect (sec)	239	0: OFF
	Select display preset number	240	(value) 0: All, (Each Bit) 0: prset1, 1: preset2 … 14: preset15, 15: Multi A
	Loosening / Fastening Switch type	241	0: Normal, 1: Reverse
	Run time limit / Forward (sec)	242	
	Run time limit / Reverse (sec)	243	
	Motor stall time limit (sec)	244	
	Loosening speed (rpm)	245	
	Motor acceleration (ms)	246	
	Error display reset time	247	0: Don't reset error
	Torque compensation master (%) 90-110	248	
	Initial preset # when power ON	249	
	LED / Light on time	250	0: Don't light off
	Driver model no. 1-99	251	
	Parameter initialize to factory setting	252	
	Torque holding time(ms) 1-20	253	
	Auto speed on torque setting	254	0: OFF, 1: ON
	Judge fastening min turns	255	
	Fastening stop error	256	0: OFF, 1: ON
	Reverse Lock	257	0: OFF, 1: ON
	LCD button lock	258	0: OFF, 1: F1 Lock, 2: All Lock
	Auto data output	259	0: OFF, 1: ON
	Torque unit	260	0: kgf.cm , 1: kgf.m , 2: N.m , 3: cN.m , 4: Lbf.in , 5: Ozf.in , 6: Lbf.ft
	Screw type	261	(Value)0: All CW, (Each Bit) 0: preset1 ccw, 1: preset 2 ccw … 14: preset 15 ccw
	Screw count	262	
	Sleep time	263	0: Don't use sleep mode
	Auto lock	264	0: OFF, 1: ON
	Select back up data type	265	(Value)0: OFF, (Each Bit) 0: ETC, 1: Fastening OK, 2: Fastening NG, 3: F/L, 4: Preset change, 5: Alarm reset, 6: System error, 7: Barcode, 8: Screw count -1
	Trigger start delay time	266	0: Don't use delay
Setting	Network enable	267	0: Wi-Fi OFF, 1: Wi-Fi ON
	Static / DHCP	268	0: Static, 1: DHCP

Remote control and barcode details

Remote control	Operation	Alarm reset	4000	1: Error reset
		Driver Lock	4001	0 : Unlock 1: Lock all dirction 2 : Lock Loosening 3: Lock Fastening
		No use (Factory only)	4002	
		Remote start	4003	0 : Stop, 1 : Start
		Preset # change (Not available on RUN)	4004	Data : 1 - 15 for preset #1 - 15 16 for Multi sequence A 17 for Multi sequence B
		Forward / Loosening	4005	0: Forward, 1: Loosening
Barcode Control	Operation	Barcode list number	5000	List : 0 ~ 29
		Barcode preset number	5001	Preset : 1 ~ 17
		Barcode judge start position	5002	Position : 0 ~ 32 (0: not use)
		Barcode judge end position	5003	Position : 0 ~ 32
		Barcode read start	5004	0: off, 1: on
		barcode list clear	5005	1: clear current barcode list, 2: clear all barcode list
		barcode data save	5006	1: Save
		Barcode data 1	5007	Ex) Barcode data "PRODUCT1" Barcode 1: "P" , 2: "R", 3: "O" , 4: "D", 5: "U" , 6: "C" , 7: "T" , 8: "1"
		Barcode data 2	5008	
		…	…	
		Barcode data 32	5038	

I/O setting details : address 226 to 241

* Input List
0) None
1) Torque select 1
2) Torque select 2
3) Torque select 3
4) Start
5) Fastening / Loosening
6) Driver Lock
7) Multi sequence
8) Alarm reset
9) Count start
10) Count reset
11) Count(workpiece) out
12) Torque select 4
13) Model cancel
14) Model select 1
15) Model select 2
16) Model select 3
17) Model select 4
18) F/L Switch enable
19) Set origin point
20) Move origin point

* Output List
0) None
1) Torque Up
2) Fastening OK
3) Ready
4) Run
5) Alarm
6) Status of F/L
7) Count complete
8) Alarm code 1
9) Alarm code 2
10) Alarm code 3
11) Model complete
12) Torque select 1
13) Torque select 2
14) Torque select 3
15) Torque select 4
16) Driver lock output

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