

**DranXperT Parameter and Modbus List**

Register Number	Modbus Address	Abbreviation	Description (If Available)	Type	Units	Journal		
						Min	Avg/ Present	Max
<b>Base Instrument</b>								
0	40001	jrnل_FREQ_A	Phase A Frequency	FLOAT32	Hz	X	X	X
1	40003	jrnل_FREQ_B	Phase B Frequency	FLOAT32	Hz	X	X	X
2	40005	jrnل_FREQ_C	Phase C Frequency	FLOAT32	Hz	X	X	X
3	40007	jrnل_VRMS_A	Phase A Voltage	FLOAT32	Volts	X	X	X
4	40009	jrnل_VRMS_B	Phase B Voltage	FLOAT32	Volts	X	X	X
5	40011	jrnل_VRMS_C	Phase C Voltage	FLOAT32	Volts	X	X	X
6	40013	jrnل_IRMS_A	Phase A Current	FLOAT32	Amps	X	X	X
7	40015	jrnل_IRMS_B	Phase B Current	FLOAT32	Amps	X	X	X
8	40017	jrnل_IRMS_C	Phase C Current	FLOAT32	Amps	X	X	X
9	40019	jrnل_WATT_A	Phase A Real Power (P)	FLOAT32	Watts	X	X	X
10	40021	jrnل_WATT_B	Phase B Real Power (P)	FLOAT32	Watts	X	X	X
11	40023	jrnل_WATT_C	Phase C Real Power (P)	FLOAT32	Watts	X	X	X
12	40025	jrnل_VA_A	Phase A Apparent Power (S)	FLOAT32	VA	X	X	X
13	40027	jrnل_VA_B	Phase B Apparent Power (S)	FLOAT32	VA	X	X	X
14	40029	jrnل_VA_C	Phase C Apparent Power (S)	FLOAT32	VA	X	X	X
15	40031	jrnل_VAR_A	Phase A Reactive Pow (Q)	FLOAT32	VAR	X	X	X
16	40033	jrnل_VAR_B	Phase B Reactive Pow (Q)	FLOAT32	VAR	X	X	X
17	40035	jrnل_VAR_C	Phase C Reactive Pow (Q)	FLOAT32	VAR	X	X	X
18	40037	jrnل_PF_A	Phase A Power Factor	FLOAT32	PF	X	X	X
19	40039	jrnل_PF_B	Phase B Power Factor	FLOAT32	PF	X	X	X
20	40041	jrnل_PF_C	Phase C Power Factor	FLOAT32	PF	X	X	X
21	40043	jrnل_VTHD_A	Phase A Total Harmonic Distortion - Voltage	FLOAT32	VTHD (%)	X	X	X
22	40045	jrnل_VTHD_B	Phase B Total Harmonic Distortion -Voltage	FLOAT32	VTHD (%)	X	X	X
23	40047	jrnل_VTHD_C	Phase C Total Harmonic Distortion - Voltage	FLOAT32	VTHD (%)	X	X	X
24	40049	jrnل_I THD_A	Phase A Total Harmonic Distortion - Current	FLOAT32	I THD (%)	X	X	X
25	40051	jrnل_I THD_B	Phase B Total Harmonic Distortion - Current	FLOAT32	I THD (%)	X	X	X
26	40053	jrnل_I THD_C	Phase C Total Harmonic Distortion - Current	FLOAT32	I THD (%)	X	X	X
27	40055	jrnل_FVRMS_A	Phase A Fundamental Voltage	FLOAT32	Volts	X	X	X
28	40057	jrnل_FVRMS_B	Phase B Fundamental Voltage	FLOAT32	Volts	X	X	X
29	40059	jrnل_FVRMS_C	Phase C Fundamental Voltage	FLOAT32	Volts	X	X	X
30	40061	jrnل_FIRMS_A	Phase A Fundamental Current	FLOAT32	Amps	X	X	X
31	40063	jrnل_FIRMS_B	Phase B Fundamental Current	FLOAT32	Amps	X	X	X
32	40065	jrnل_FIRMS_C	Phase C Fundamental Current	FLOAT32	Amps	X	X	X
33	40067	jrnل_FWATT_A	Phase A Fundamental Real Power (P)	FLOAT32	Watts	X	X	X
34	40069	jrnل_FWATT_B	Phase B Fundamental Real Power (P)	FLOAT32	Watts	X	X	X
35	40071	jrnل_FWATT_C	Phase C Fundamental Real Power (P)	FLOAT32	Watts	X	X	X
36	40073	jrnل_FVA_A	Phase A Fundamental Apparent Power (S)	FLOAT32	VA	X	X	X
37	40075	jrnل_FVA_B	Phase B Fundamental Apparent Power (S)	FLOAT32	VA	X	X	X
38	40077	jrnل_FVA_C	Phase C Fundamental Apparent Power (S)	FLOAT32	VA	X	X	X
39	40079	jrnل_FVAR_A	Phase A Fundamental Reactive Power (Q)	FLOAT32	VAR	X	X	X
40	40081	jrnل_FVAR_B	Phase B Fundamental Reactive Power (Q)	FLOAT32	VAR	X	X	X
41	40083	jrnل_FVAR_C	Phase C Fundamental Reactive Power (Q)	FLOAT32	VAR	X	X	X
42	40085	jrnل_VRMS1_A	Phase A Voltage - 1 Sec	FLOAT32	Volts	X	X	X
43	40087	jrnل_VRMS1_B	Phase B Voltage - 1 Sec	FLOAT32	Volts	X	X	X
44	40089	jrnل_VRMS1_C	Phase C Voltage - 1 Sec	FLOAT32	Volts	X	X	X
45	40091	jrnل_IRMS1_A	Phase A Current - 1 Sec	FLOAT32	Amps	X	X	X
46	40093	jrnل_IRMS1_B	Phase B Current - 1 Sec	FLOAT32	Amps	X	X	X
47	40095	jrnل_IRMS1_C	Phase C Current - 1 Sec	FLOAT32	Amps	X	X	X
48	40097	jrnل_VRMS1012_A	Phase A Voltage - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32	Volts	X	X	X
49	40099	jrnل_VRMS1012_B	Phase B Voltage - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32	Volts	X	X	X
50	40101	jrnل_VRMS1012_C	Phase C Voltage - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32	Volts	X	X	X
51	40103	jrnل_IRMS1012_A	Phase A Current - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32	Amps	X	X	X
52	40105	jrnل_IRMS1012_B	Phase B Current - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32	Amps	X	X	X
53	40107	jrnل_IRMS1012_C	Phase C Current - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32	Amps	X	X	X
54	40109	jrnل_VANGLE_A	Phase A Voltage Angle	FLOAT32	Deg	X	X	X
55	40111	jrnل_VANGLE_B	Phase B Voltage Angle	FLOAT32	Deg	X	X	X
56	40113	jrnل_VANGLE_C	Phase C Voltage Angle	FLOAT32	Deg	X	X	X
57	40115	jrnل_IANGLE_A	Phase A Current Angle	FLOAT32	Deg	X	X	X
58	40117	jrnل_IANGLE_B	Phase B Current Angle	FLOAT32	Deg	X	X	X
59	40119	jrnل_IANGLE_C	Phase C Current Angle	FLOAT32	Deg	X	X	X
60	40121	jrnل_NIRMS	Neutral Current	FLOAT32				
61	40123	jrnل_NIRMSone	Neutral Current - 1 Sec	FLOAT32				
62	40125	jrnل_NIRMS1012	Neutral Current - 10/12-cycle variations of the measurement (200ms measurements).	FLOAT32				
63	40127	interval_AWATTHR	Phase A Watt-Hours	FLOAT32	W-HR	X	X	X
64	40129	interval_BWATTHR	Phase B Watt-Hours	FLOAT32	W-HR	X	X	X
65	40131	interval_CWATTHR	Phase C Watt-Hours	FLOAT32	W-HR	X	X	X
66	40133	interval_AVARHR	Phase A VAR-Hours	FLOAT32	VAR-HR	X	X	X
67	40135	interval_BVARHR	Phase B VAR-Hours	FLOAT32	VAR-HR	X	X	X
68	40137	interval_CVARHR	Phase C VAR-Hours	FLOAT32	VAR-HR	X	X	X
69	40139	interval_AVAHR	Phase A VA-Hours	FLOAT32	VA-HR	X	X	X
70	40141	interval_BVAHR	Phase B VA-Hours	FLOAT32	VA-HR	X	X	X
71	40143	interval_CVAHR	Phase C VA-Hours	FLOAT32	VA-HR	X	X	X
72	40145	interval_AFWATTHR	Phase A Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
73	40147	interval_BFWATTHR	Phase B Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
74	40149	interval_CFWATTHR	Phase C Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
75	40151	interval_AFVARHR	Phase A Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X

76	40153	interval_BFVARHR	Phase B Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
77	40155	interval_CFVARHR	Phase C Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
78	40157	interval_AFVAHR	Phase A Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
79	40159	interval_BFVAHR	Phase B Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
80	40161	interval_CFVAHR	Phase C Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
81	40163	interval_TOT_WATTHR	Total Watt-Hours	FLOAT32	W-HR	X	X	X
82	40165	interval_TOT_VARHR	Total VAR-Hours	FLOAT32	VAR-HR	X	X	X
83	40167	interval_TOT_VAHR	Total VA-Hours	FLOAT32	VA-HR	X	X	X
84	40169	interval_TOT_FWATTHR	Total Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
85	40171	interval_TOT_FVARHR	Total Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
86	40173	interval_TOT_FVAHR	Total Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
87	40175	accum_AWATTHR	Accumulated Phase A Watt-Hours	FLOAT32	W-HR	X	X	X
88	40177	accum_BWATTHR	Accumulated Phase B Watt-Hours	FLOAT32	W-HR	X	X	X
89	40179	accum_CWATTHR	Accumulated Phase C Watt-Hours	FLOAT32	W-HR	X	X	X
90	40181	accum_AVARHR	Accumulated Phase A VAR-Hours	FLOAT32	VAR-HR	X	X	X
91	40183	accum_BVARHR	Accumulated Phase B VAR-Hours	FLOAT32	VAR-HR	X	X	X
92	40185	accum_CVARHR	Accumulated Phase C VAR-Hours	FLOAT32	VAR-HR	X	X	X
93	40187	accum_AVAHR	Accumulated Phase A VA-Hours	FLOAT32	VA-HR	X	X	X
94	40189	accum_BVAHR	Accumulated Phase B VA-Hours	FLOAT32	VA-HR	X	X	X
95	40191	accum_CVAHR	Accumulated Phase C VA-Hours	FLOAT32	VA-HR	X	X	X
96	40193	accum_AFWATTHR	Accumulated Phase A Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
97	40195	accum_BFWATTHR	Accumulated Phase B Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
98	40197	accum_CFWATTHR	Accumulated Phase C Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
99	40199	accum_AFVARHR	Accumulated Phase A Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
100	40201	accum_BFVARHR	Accumulated Phase B Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
101	40203	accum_CFVARHR	Accumulated Phase C Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
102	40205	accum_AFVAHR	Accumulated Phase A Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
103	40207	accum_BFVAHR	Accumulated Phase B Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
104	40209	accum_CFVAHR	Accumulated Phase C Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
105	40211	accum_TOT_WATTHR	Accumulated Total Watt-Hours	FLOAT32	W-HR	X	X	X
106	40213	accum_TOT_VARHR	Accumulated Total VAR-Hours	FLOAT32	VAR-HR	X	X	X
107	40215	accum_TOT_VAHR	Accumulated Total VA-Hours	FLOAT32	VA-HR	X	X	X
108	40217	accum_TOT_FWATTHR	Accumulated Total Fundamental Watt-Hours	FLOAT32	W-HR	X	X	X
109	40219	accum_TOT_FVARHR	Accumulated Total Fundamental VAR-Hours	FLOAT32	VAR-HR	X	X	X
110	40221	accum_TOT_FVAHR	Accumulated Total Fundamental VA-Hours	FLOAT32	VA-HR	X	X	X
Analog / Digital Input Option								
150	40301	count_1	Digital input #1 present count	FLOAT32			X	
151	40303	digital_1	Digital input #1 present state (0/1)	FLOAT32			X	
152	40305	count_2	Digital input #2 present count	FLOAT32			X	
153	40307	digital_2	Digital input #2 present state (0/1)	FLOAT32			X	
154	40309	analog_1	Analog input #1 converted to user Specified units	FLOAT32		X	X	X
155	40311	analog_2	Analog input #1 converted to user Specified units	FLOAT32		X	X	X
156	40313	analog_3	Analog input #1 converted to user Specified units	FLOAT32		X	X	X
157	40315	analog_4	Analog input #1 converted to user Specified units	FLOAT32		X	X	X
Accelerometer Options								
170	40341	accel_X	X-axis instantaneous acceleration (Gs)	FLOAT32		X	X	X
171	40343	accel_Y	Y-axis instantaneous acceleration (Gs)	FLOAT32		X	X	X
172	40345	accel_Z	Z-axis instantaneous acceleration (Gs)	FLOAT32		X	X	X
GPS Options								
180	40361	gps_LAT	Present Instrument Latitude (decimal degrees)	FLOAT32	Deg		X	
181	40363	gps_LON	Present Instrument Longitude (decimal degrees)	FLOAT32	Deg		X	
182	40365	gps_ALT	Present Instrument Evaluation (decimal degrees)	FLOAT32	Deg		X	
190	40381	i2c_TEMP	Temperature from 1-meter long SHT-31 Probe	FLOAT32	Deg	X	X	X
191	40383	i2c_HUM	Relative Humidity from 1-meter long SHT-31 Probe	FLOAT32	%	X	X	X
192	40385	i2c_TEMP	User Defined Parameter	FLOAT32		X	X	X