ETR-4000

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
Identification	1032	Vendor Name	32	ASCII	no-units		
	1064	Model Name	32	ASCII	no-units		
	1096	Display Name	32	ASCII	no-units		
	1128	Device Type	32	ASCII	no-units		
	1605	Field Replaceable Unit	1	UINT16	no-units		
PROT	30009	PROT Signal - Active	1	UINT16	no-units		Inactive(0);Active(1)
	30014	PROT Signal - General Pickup	1	UINT16	no-units		Inactive(0);Active(1)
	30019	PROT Signal - General Trip	1	UINT16	no-units		Inactive(0);Active(1)
50P1	30025	50P1 Signal - Active	1	UINT16	no-units		Inactive(0);Active(1)
	30026	50P1 Signal - Trip Command blocked	1	UINT16	no-units		Inactive(0);Active(1)
	30032	50P1 Signal - Pickup	1	UINT16	no-units		Inactive(0);Active(1)
	30036	50P1 Signal - Trip	1	UINT16	no-units		Inactive(0);Active(1)
	30037	50P1 Signal - Trip Command	1	UINT16	no-units		Inactive(0);Active(1)
50P2	30038	50P2 Signal - Active	1	UINT16	no-units		Inactive(0);Active(1)
	30039	50P2 Signal - Trip Command blocked	1	UINT16	no-units		Inactive(0);Active(1)
	30045	50P2 Signal - Pickup	1	UINT16	no-units		Inactive(0);Active(1)
	30049	50P2 Signal - Trip	1	UINT16	no-units		Inactive(0);Active(1)
	30050	50P2 Signal - Trip Command	1	UINT16	no-units		Inactive(0);Active(1)
50P3	30051	50P3 Signal - Active	1	UINT16	no-units		Inactive(0);Active(1)
	30052	50P3 Signal - Trip Command blocked	1	UINT16	no-units		Inactive(0);Active(1)
	30058	50P3 Signal - Pickup	1	UINT16	no-units		Inactive(0);Active(1)
	30062	50P3 Signal - Trip	1	UINT16	no-units		Inactive(0);Active(1)
	30063	50P3 Signal - Trip Command	1	UINT16	no-units		Inactive(0);Active(1)

50P4	30064	50P4 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30065	50P4 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30071	50P4 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30075	50P4 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30076	50P4 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51P1	30077	51P1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30078	51P1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30084	51P1 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30088	51P1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30089	51P1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51P2	30090	51P2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30091	51P2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30097	51P2 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30101	51P2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30102	51P2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
50X1	30129	50X1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30130	50X1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30133	50X1 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30134	50X1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30135	50X1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
50X2	30136	50X2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30137	50X2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30140	50X2 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30141	50X2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)

	30142	50X2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51X1	30143	51X1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30144	51X1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30147	51X1 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30148	51X1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30149	51X1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51X2	30150	51X2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30151	51X2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30154	51X2 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30155	51X2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30156	51X2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
49	30267	49 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30268	49 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30270	49 Signal - Alarm	1	UINT16	no-units	Inactive(0);Active(1)
	30271	49 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30272	49 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51Q1	30273	51Q1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30274	51Q1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30276	51Q1 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30277	51Q1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30278	51Q1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51Q2	30279	51Q2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30280	51Q2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30282	51Q2 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)

	30283	51Q2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30284	51Q2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
Inrush1	30196	Inrush Signal - Blocked Phase A	1	UINT16	no-units	Inactive(0);Active(1)
	30197	Inrush Signal - Blocked Phase B	1	UINT16	no-units	Inactive(0);Active(1)
	30198	Inrush Signal - Blocked Phase C	1	UINT16	no-units	Inactive(0);Active(1)
	30199	Inrush Signal - Blocked Phase IX	1	UINT16	no-units	Inactive(0);Active(1)
	30200	Inrush Signal - Inrush detected in at least 1 Phase	1	UINT16	no-units	Inactive(0);Active(1)
		Inrush Signal - Blocked Phase IR		UINT16	no-units	Inactive(0);Active(1)
EXP1 - External Protection		EXP1 Active		UINT16	no-units	Inactive(0);Active(1)
		EXP1 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		EXP1 Alarm		UINT16	no-units	Inactive(0);Active(1)
		EXP1 Trip		UINT16	no-units	Inactive(0);Active(1)
		EXP1 Trip Command		UINT16	no-units	Inactive(0);Active(1)
EXP2 - External Protection		EXP2 Active		UINT16	no-units	Inactive(0);Active(1)
		EXP2 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		EXP2 Alarm		UINT16	no-units	Inactive(0);Active(1)
		EXP2 Trip		UINT16	no-units	Inactive(0);Active(1)
		EXP2 Trip Command		UINT16	no-units	Inactive(0);Active(1)
EXP3 - External Protection		EXP3 Active		UINT16	no-units	Inactive(0);Active(1)
		EXP3 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		EXP3 Alarm		UINT16	no-units	Inactive(0);Active(1)
		EXP3 Trip		UINT16	no-units	Inactive(0);Active(1)
		EXP3 Trip Command		UINT16	no-units	Inactive(0);Active(1)
EXP4 - External Protection		EXP4 Active		UINT16	no-units	Inactive(0);Active(1)
		EXP4 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		EXP4 Alarm		UINT16	no-units	Inactive(0);Active(1)
		EXP4 Trip		UINT16	no-units	Inactive(0);Active(1)
		EXP4 Trip Command		UINT16	no-units	Inactive(0);Active(1)

Breaker Failure1	30158	BF Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30162	BF Signal - Breaker Failure Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30163	BF Signal - Breaker Failure Trip	1	UINT16	no-units	Inactive(0);Active(1)
		BF Signal - Breaker Failure Lockout		UINT16	no-units	Inactive(0);Active(1)
PROT	30023	Fault Number	1	UINT16	no-units	
PROT	30024	Grid Fault Number	1	UINT16	no-units	
AF/SS/SC	30227	Signal - Parameter Set 1	1	UINT16	no-units	Inactive(0);Active(1)
	30228	Signal - Parameter Set 2	1	UINT16	no-units	Inactive(0);Active(1)
	30229	Signal - Parameter Set 3	1	UINT16	no-units	Inactive(0);Active(1)
	30230	Signal - Parameter Set 4	1	UINT16	no-units	Inactive(0);Active(1)
	30238	Signal - At least 1 parameter has been changed	1	UINT16	no-units	Inactive(0);Active(1)
50R1	30239	50R1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30240	50R1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30243	50R1 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30244	50R1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30245	50R1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
50R2	30246	50R2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30247	50R2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30250	50R2 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30251	50R2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30252	50R2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51R1	30253	51R1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)

	30254	51R1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30257	51R1 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30258	51R1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30259	51R1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51R2	30260	51R2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30261	51R2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30264	51R2 Signal - Pickup Ix or Ir	1	UINT16	no-units	Inactive(0);Active(1)
	30265	51R2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30266	51R2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
SOTF	30371	SOTF Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30374	SOTF Signal - Switch onto Fault Enabled	1	UINT16	no-units	Inactive(0);Active(1)
	30376	SOTF Signal - No Load Current	1	UINT16	no-units	Inactive(0);Active(1)
Cold Load	30377	CLPU Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30379	CLPU Signal - Cold Load Enabled	1	UINT16	no-units	Inactive(0);Active(1)
	30380	CLPU Signal - Cold Load Detected	1	UINT16	no-units	Inactive(0);Active(1)
	30381	CLPU Signal - No Load Current	1	UINT16	no-units	Inactive(0);Active(1)
		CLPU Signal - Load Inrush		UINT16	no-units	Inactive(0);Active(1)
		CLPU Signal - Settle Time		UINT16	no-units	Inactive(0);Active(1)
51Q1		51Q1 Signal - Trip Command blocked by IH2		UINT16	no-units	Inactive(0);Active(1)
51Q2		51Q2 Signal - Trip Command blocked by IH2		UINT16	no-units	Inactive(0);Active(1)
51P3	30103	51P3 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)

	30104	51P3 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30110	51P3 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30114	51P3 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30115	51P3 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
51P4	30116	51P4 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30117	51P4 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30123	51P4 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30127	51P4 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30128	51P4 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
Breaker Failure2	30165	BF2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30169	BF2 Signal - Breaker Failure Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30170	BF2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
		BF2 Signal - Breaker Failure Lockout		UINT16	no-units	Inactive(0);Active(1)
Inrush2	30202	Inrush2 Signal - Blocked Phase A	1	UINT16	no-units	Inactive(0);Active(1)
	30203	Inrush2 Signal - Blocked Phase B	1	UINT16	no-units	Inactive(0);Active(1)
	30204	Inrush2 Signal - Blocked Phase C	1	UINT16	no-units	Inactive(0);Active(1)
	30205	Inrush2 Signal - Blocked Phase IX	1	UINT16	no-units	Inactive(0);Active(1)
	30206	Inrush2 Signal - Inrush detected in at least 1 phase	1	UINT16	no-units	Inactive(0);Active(1)
		Inrush2 Signal - Blocked Phase IR		UINT16	no-units	Inactive(0);Active(1)

Breaker Wear1	30184	Breaker Wear 1 Signal - Isum Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30188	Breaker Wear 1 Signal - Operations Alarm	1	UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear 1 Signal - Wear Level Alarm		UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear 1 Signal - Wear Level Lockout		UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear 1 Signal - Isum Alarm		UINT16	no-units	Inactive(0);Active(1)
Breaker Wear2	30190	Breaker Wear 2 Signal - Isum Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30194	Breaker Wear 2 Signal - Operations Alarm	1	UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear 2 Signal - Wear Level Alarm		UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear 2 Signal - Wear Level Lockout		UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear 2 Signal - Isum Alarm		UINT16	no-units	Inactive(0);Active(1)
External Oil Temp		Ext Oil Temp Signal - Active		UINT16	no-units	Inactive(0);Active(1)
		Ext Oil Temp Signal - Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
		Ext Oil Temp Signal - Alarm		UINT16	no-units	Inactive(0);Active(1)
		Ext Oil Temp Signal - Trip		UINT16	no-units	Inactive(0);Active(1)
		Ext Oil Temp Signal - Trip Command		UINT16	no-units	Inactive(0);Active(1)
Sudden Press	30207	Sudden Press Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30208	Sudden Press Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30210	Sudden Press Signal - Alarm	1	UINT16	no-units	Inactive(0);Active(1)

	30212	Sudden Press Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30214	Sudden Press Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
External Temp. Su	30215	Ext Temp Spv1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30216	Ext Temp Spv1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30218	Ext Temp Spv1 Signal - Alarm	1	UINT16	no-units	Inactive(0);Active(1)
	30220	Ext Temp Spv1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30222	Ext Temp Spv1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
External Temp. Supervision 2		Ext Temp Spv2 Signal - Active		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv2 Signal - Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv2 Signal - Alarm		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv2 Signal - Trip		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv2 Signal - Trip Command		UINT16	no-units	Inactive(0);Active(1)
External Temp. Supervision 3		Ext Temp Spv3 Signal - Active		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv3 Signal - Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv3 Signal - Alarm		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv3 Signal - Trip		UINT16	no-units	Inactive(0);Active(1)
		Ext Temp Spv3 Signal - Trip Command		UINT16	no-units	Inactive(0);Active(1)
87	30285	87 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30286	87 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30291	87 Signal - Blocked by harmonics 2-4-5	1	UINT16	no-units	Inactive(0);Active(1)

	30292	87 Signal - Diff Protection blocked by CT supervision	1	UINT16	no-units	Inactive(0);Active(1)
	30298	87 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30302	87 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30303	87 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
87GD1	30304	87GD1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30305	87GD1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30307	87GD1 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30308	87GD1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30309	87GD1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
87GD2	30310	87GD2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30311	87GD2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30313	87GD2 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30314	87GD2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30315	87GD2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
87GDH1	30316	87GDH1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30317	87GDH1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30319	87GDH1 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30320	87GDH1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30321	87GDH1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
87GDH2	30322	87GDH2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30323	87GDH2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30325	87GDH2 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30326	87GDH2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30327	87GDH2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)

87H	30328	87H Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30329	87H Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30331	87H Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30335	87H Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30339	87H Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
CTS	30223	CTS Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30224	CTS Signal - Pickup Current Transformer Measuring Circuit Supervision	1	UINT16	no-units	Inactive(0);Active(1)
CTS	30225	CTS2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30226	CTS2 Signal - Pickup Current Transformer Measuring Circuit Supervision	1	UINT16	no-units	Inactive(0);Active(1)
Zone Interlock1	30340	Zone Interlock1 Signal - Blocked by BF	1	UINT16	no-units	Inactive(0);Active(1)
	30341	Zone Interlock1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30342	Zone Interlock1 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30344	Zone Interlock1 Signal - Ground Out	1	UINT16	no-units	Inactive(0);Active(1)
	30345	Zone Interlock1 Signal - Ground Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30346	Zone Interlock1 Signal - Ground Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30347	Zone Interlock1 Signal - Phase Out	1	UINT16	no-units	Inactive(0);Active(1)
	30348	Zone Interlock1 Signal - Phase Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30349	Zone Interlock1 Signal - Phase Trip	1	UINT16	no-units	Inactive(0);Active(1)

	30350	Zone Interlock1 Signal - ZI In	1	UINT16	no-units	Inactive(0);Active(1)
	30351	Zone Interlock1 Signal - ZI Out	1	UINT16	no-units	Inactive(0);Active(1)
	30352	Zone Interlock1 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30353	Zone Interlock1 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30354	Zone Interlock1 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
Zone Interlock2	30355	Zone Interlock2 Signal - Blocked by BF	1	UINT16	no-units	Inactive(0);Active(1)
	30356	Zone Interlock2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30357	Zone Interlock2 Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	30359	Zone Interlock2 Signal - Ground Out	1	UINT16	no-units	Inactive(0);Active(1)
	30360	Zone Interlock2 Signal - Ground Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30361	Zone Interlock2 Signal - Ground Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30362	Zone Interlock2 Signal - Phase Out	1	UINT16	no-units	Inactive(0);Active(1)
	30363	Zone Interlock2 Signal - Phase Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30364	Zone Interlock2 Signal - Phase Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30365	Zone Interlock2 Signal - ZI In	1	UINT16	no-units	Inactive(0);Active(1)
	30366	Zone Interlock2 Signal - ZI Out	1	UINT16	no-units	Inactive(0);Active(1)
	30367	Zone Interlock2 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	30368	Zone Interlock2 Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30369	Zone Interlock2 Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
RTD	30517	RTD Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	30518	RTD Signal - Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)

30520	RTD Signal - Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30521	RTD Signal - Trip	1	UINT16	no-units	Inactive(0);Active(1)
30522	RTD Signal - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
30523	RTD Signal - Winding 1 Phase A Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30524	RTD Signal - Winding 1 Phase A Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30525	RTD Signal - Winding 1 Phase A Trip	1	UINT16	no-units	Inactive(0);Active(1)
30526	RTD Signal - Winding 1 Phase A Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30527	RTD Signal - Winding 1 Phase B Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30528	RTD Signal - Winding 1 Phase B Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30529	RTD Signal - Winding 1 Phase B Trip	1	UINT16	no-units	Inactive(0);Active(1)
30530	RTD Signal - Winding 1 Phase B Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30531	RTD Signal - Winding 1 Phase C Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30532	RTD Signal - Winding 1 Phase C Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30533	RTD Signal - Winding 1 Phase C Trip	1	UINT16	no-units	Inactive(0);Active(1)
30534	RTD Signal - Winding 1 Phase C Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30535	RTD Signal - Winding 2 Phase A Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30536	RTD Signal - Winding 2 Phase A Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30537	RTD Signal - Winding 2 Phase A Trip	1	UINT16	no-units	Inactive(0);Active(1)

30538	RTD Signal - Winding 2 Phase A Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30539	RTD Signal - Winding 2 Phase B Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30540	RTD Signal - Winding 2 Phase B Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30541	RTD Signal - Winding 2 Phase B Trip	1	UINT16	no-units	Inactive(0);Active(1)
30542	RTD Signal - Winding 2 Phase B Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30543	RTD Signal - Winding 2 Phase C Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30544	RTD Signal - Winding 2 Phase C Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30545	RTD Signal - Winding 2 Phase C Trip	1	UINT16	no-units	Inactive(0);Active(1)
30546	RTD Signal - Winding 2 Phase C Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30547	RTD Signal - Amb1 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30548	RTD Signal - Amb1 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30549	RTD Signal - Amb1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30550	RTD Signal - Amb1 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30551	RTD Signal - Amb2 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30552	RTD Signal - Amb2 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30553	RTD Signal - Amb2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30554	RTD Signal - Amb2 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30555	RTD Signal - Aux1 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30556	RTD Signal - Aux1 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30557	RTD Signal - Aux1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30558	RTD Signal - Aux1 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30559	RTD Signal - Aux2 Alarm	1	UINT16	no-units	Inactive(0);Active(1)

30560	RTD Signal - Aux2 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30561	RTD Signal - Aux2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30562	RTD Signal - Aux2 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30563	RTD Signal - Aux3 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30564	RTD Signal - Aux3 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30565	RTD Signal - Aux3 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30566	RTD Signal - Aux3 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 1 Group Invalid		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 2 Group Invalid		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Ambient Group Invalid		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Ambient Group Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Ambient Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Ambient Group Trip		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 2 Group Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 2 Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 2 Group Trip		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 1 Group Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 1 Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Winding 1 Group Trip		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Voting Group 1 Trip		UINT16	no-units	Inactive(0);Active(1)

		RTD Signal - Voting Group 2 Trip		UINT16	no-units	Inactive(0);Active(1)
IRIG-B		IRIG-B Active		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Inverted		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 01		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 02		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 04		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 05		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 06		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 07		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 08		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 09		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 10		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 11		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 12		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 13		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 14		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 15		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 16		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 17		UINT16	no-units	Inactive(0);Active(1)
		IRIG-B Control Signal 18		UINT16	no-units	Inactive(0);Active(1)
TCM1	31000	TCM1 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	31001	TCM1 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
TCM2	31006	TCM2 Signal - Active	1	UINT16	no-units	Inactive(0);Active(1)
	31007	TCM2 Signal - Pickup	1	UINT16	no-units	Inactive(0);Active(1)
RO X2	31041	RO SlotX2 Signal - Relay Outputs Disarmed	1	UINT16	no-units	Inactive(0);Active(1)
	31042	RO SlotX2 Signal - At least one relay output set by force	1	UINT16	no-units	Inactive(0);Active(1)
	31043	RO SlotX2 Signal - ZI out	1	UINT16	no-units	Inactive(0);Active(1)

	31044	RO SlotX2 Signal - Relay Output 1	1	UINT16	no-units	Inactive(0);Active(1)
	31045	RO SlotX2 Signal - Relay Output 2	1	UINT16	no-units	Inactive(0);Active(1)
	31046	RO SlotX2 Signal - Relay Output 3	1	UINT16	no-units	Inactive(0);Active(1)
	31047	RO SlotX2 Signal - Relay Output 4	1	UINT16	no-units	Inactive(0);Active(1)
RO X5	31048	RO SlotX5 Signal - Relay Outputs Disarmed	1	UINT16	no-units	Inactive(0);Active(1)
	31049	RO SlotX5 Signal - At least one relay output set by force	1	UINT16	no-units	Inactive(0);Active(1)
	31050	RO SlotX5 Signal - ZI out	1	UINT16	no-units	Inactive(0);Active(1)
	31051	RO SlotX5 Signal - Relay Output 1	1	UINT16	no-units	Inactive(0);Active(1)
	31052	RO SlotX5 Signal - Relay Output 2	1	UINT16	no-units	Inactive(0);Active(1)
	31053	RO SlotX5 Signal - Relay Output 3	1	UINT16	no-units	Inactive(0);Active(1)
	31054	RO SlotX5 Signal - Relay Output 4	1	UINT16	no-units	Inactive(0);Active(1)
System Maintenar	31012	SYS Signal - Arc Flash reduction maintenance active	1	UINT16	no-units	Inactive(0);Active(1)
	31016	SYS Signal - Arc Flash reduction maintenance inactive	1	UINT16	no-units	Inactive(0);Active(1)
Wired Inputs		Wired Input - Main Breaker 1 Connected		UINT16	no-units	Inactive(0);Active(1)
		Wired Input - Main Breaker 2 Connected		UINT16	no-units	Inactive(0);Active(1)
		Wired Input - Tie Breaker Connected		UINT16	no-units	Inactive(0);Active(1)

	Wired Input - Main Breaker 1 Selected to Trip	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Main Breaker 2 Selected to Trip	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Tie Breaker Selected to Trip	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - System in Auto	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - System in Manual	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Preferred Source 1	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Preferred Source 2	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Main Breaker 1 Closed	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Main Breaker 2 Closed	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Tie Breaker Closed	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Main Breaker 1 Open	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Main Breaker 2 Open	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Tie Breaker Open	UINT16	no-units	Inactive(0);Active(1)
	Wired Input - Breaker Trouble	UINT16	no-units	Inactive(0);Active(1)
SYSA - System Alarms	SYSA - Current Demand Alarm	UINT16	no-units	Inactive(0);Active(1)
	SYSA - Active	UINT16	no-units	Inactive(0);Active(1)
	SYSA - Current THD Alarm	UINT16	no-units	Inactive(0);Active(1)
	SYSA - Current Demand Trip	UINT16	no-units	Inactive(0);Active(1)
	SYSA - Current THD Trip	UINT16	no-units	Inactive(0);Active(1)
CTRL	CTRL - Local	UINT16	no-units	Inactive(0);Active(1)
	CTRL - Remote	UINT16	no-units	Inactive(0);Active(1)

Breaker1	30021	Breaker 1 - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
		Breaker 1 - Open Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 1 - Manual Open Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 1 - Close Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 1 - Manual Close Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 1 - Slow Breaker		UINT16	no-units	Inactive(0);Active(1)
		Breaker 1 - Reset Slow Breaker		UINT16	no-units	Inactive(0);Active(1)
	30176	Bkr1 Signal - Breaker Disturbed	1	UINT16	no-units	Inactive(0);Active(1)
	30173	Bkr1 Signal - Breaker Indeterminate	1	UINT16	no-units	Inactive(0);Active(1)
	30174	Bkr1 Signal - Breaker Open	1	UINT16	no-units	Inactive(0);Active(1)
	30175	Bkr1 Signal - Breaker Closed	1	UINT16	no-units	Inactive(0);Active(1)
	30171	Bkr1 Signal - Breaker is Ready for operation	1	UINT16	no-units	Inactive(0);Active(1)
Status	30172	Breaker 1 - State	1	UINT16	no-units	Disturbed(0);Indeterminate(2);Open(3);Closed(4);Error(5)
Breaker2	30022	Breaker 2 - Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
		Breaker 2 - Open Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 2 - Manual Open Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 2 - Close Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 2 - Manual Close Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker 2 - Slow Breaker		UINT16	no-units	Inactive(0);Active(1)
		Breaker 2 - Reset Slow Breaker		UINT16	no-units	Inactive(0);Active(1)
	30182	Bkr2 Signal - Breaker Disturbed	1	UINT16	no-units	Inactive(0);Active(1)
	30179	Bkr2 Signal - Breaker Indeterminate	1	UINT16	no-units	Inactive(0);Active(1)
	30180	Bkr2 Signal - Breaker Open	1	UINT16	no-units	Inactive(0);Active(1)

	30181	Bkr2 Signal - Breaker Closed	1	UINT16	no-units	Inactive(0);Active(1)
	30177	Bkr2 Signal - Breaker is Ready for operation	1	UINT16	no-units	Inactive(0);Active(1)
Status	30178	Breaker 2 - State	1	UINT16	no-units	Disturbed(0);Indeterminate(2);Open(3);Closed(4);Error(5)
RTD	30567	RTD Signal - Any RTD Group Alarm	1	UINT16	no-units	Inactive(0);Active(1)
	30569	RTD Signal - Any RTD Group Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30568	RTD Signal - Any RTD Group Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux4 Invalid		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux4 Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux4 Invalid		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux4 Trip		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux Group Invalid		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux Group Invalid		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - Aux Group Trip		UINT16	no-units	Inactive(0);Active(1)
DI Slot X1	31030	Signal - Digital Input 1	1	UINT16	no-units	Inactive(0);Active(1)
	31031	Signal - Digital Input 2	1	UINT16	no-units	Inactive(0);Active(1)
	31032	Signal - Digital Input 3	1	UINT16	no-units	Inactive(0);Active(1)
	31033	Signal - Digital Input 4	1	UINT16	no-units	Inactive(0);Active(1)
	31034	Signal - Digital Input 5	1	UINT16	no-units	Inactive(0);Active(1)
	31035	Signal - Digital Input 6	1	UINT16	no-units	Inactive(0);Active(1)
	31036	Signal - Digital Input 7	1	UINT16	no-units	Inactive(0);Active(1)
	31037	Signal - Digital Input 8	1	UINT16	no-units	Inactive(0);Active(1)
Modbus		Modbus Command 01		UINT16	no-units	Inactive(0);Active(1)

		Modbus Command 02		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 03		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 04		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 05		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 06		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 07		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 08		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 09		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 10		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 11		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 12		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 13		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 14		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 15		UINT16	no-units	Inactive(0);Active(1)
		Modbus Command 16		UINT16	no-units	Inactive(0);Active(1)
	35000	Signal - Communication Active	1	UINT16	no-units	Inactive(0);Active(1)
RTD	31018	URTD Signal - W1-A supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31019	URTD Signal - W1-B supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31020	URTD Signal - W1-C supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31021	URTD Signal - W2-A supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31022	URTD Signal - W2-B supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31023	URTD Signal - W2-C supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31024	URTD Signal - Amb1 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31025	URTD Signal - Amb2 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31026	URTD Signal - Aux1 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31027	URTD Signal - Aux2 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31028	URTD Signal - Aux3 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31029	URTD Signal - URTD supervision	1	UINT16	no-units	Inactive(0);Active(1)
		URTD Signal - Aux4 supervision		UINT16	no-units	Inactive(0);Active(1)
Service		Signal Generator Running		UINT16	no-units	Inactive(0);Active(1)
Logic or Discrete Input/Output		Logic Equation 01 - Gate Output		UINT16	no-units	Inactive(0);Active(1)

	Logic Equation 01 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 01 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 01 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 02 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 02 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 02 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 02 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 03 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 03 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 03 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 03 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 04 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 04 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 04 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 04 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 05 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 05 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 05 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 05 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 06 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 06 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 06 - Output	UINT16	no-units	Inactive(0);Active(1)

	Logic Equation 06 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 07 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 07 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 07 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 07 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 08 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 08 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 08 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 08 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 09 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 09 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 09 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 09 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 10 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 10 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 10 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 10 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 11 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 11 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 11 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 11 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 12 - Gate Output	UINT16	no-units	Inactive(0);Active(1)

	Logic Equation 12 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 12 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 12 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 13 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 13 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 13 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 13 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 14 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 14 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 14 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 14 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 15 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 15 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 15 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 15 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 16 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 16 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 16 - Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 16 - Output Inverted	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 17 - Gate Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 17 - Timer Output	UINT16	no-units	Inactive(0);Active(1)
	Logic Equation 17 - Output	UINT16	no-units	Inactive(0);Active(1)

		Logic Equation 17 - Output Inverted		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 18 - Gate Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 18 - Timer Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 18 - Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 18 - Output Inverted		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 19 - Gate Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 19 - Timer Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 19 - Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 19 - Output Inverted		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 20 - Gate Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 20 - Timer Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 20 - Output		UINT16	no-units	Inactive(0);Active(1)
		Logic Equation 20 - Output Inverted		UINT16	no-units	Inactive(0);Active(1)
Date and Time	35001	Year	1	UINT16	year	
	35002	Month	1	UINT16	months	
	35003	Day	1	UINT16	days	
	35004	Hour	1	UINT16	hours	
	35005	Minute	1	UINT16	minutes	
	35006	Milliseconds	1	UINT16	milliseconds	
	35020	Breaker 1 Trip Command Counter	2	UINT32	no-units	
	2108	Build	24	ASCII	no-units	
	3084	Number of Operating Hours	1	UINT16	hours	
	35021	Breaker 2 Trip Command Counter	2	UINT32	no-units	
	8260	W1 - IA Fundamental	2	FLOAT	amperes	

	8262	W1 - IB Fundamental	2	FLOAT	amperes
	8264	W1 - IC Fundamental	2	FLOAT	amperes
	8266	W1 - IX Meas Fundamental	2	FLOAT	amperes
	35022	Thermal Capacity Used	2	FLOAT	percent
	35030	Remaining time until thermal overload trip	2	UINT32	seconds
	5122	W1 - I0 Fundamental	2	FLOAT	amperes
	5118	W1 - I1 Fundamental	2	FLOAT	amperes
	5120	W1 - I2 Fundamental	2	FLOAT	amperes
	33060	W1 - IA H2	2	FLOAT	percent
	33062	W1 - IB H2	2	FLOAT	percent
	33064	W1 - IC H2	2	FLOAT	percent
	33058	W1 - IG H2	2	FLOAT	percent
Power Quality		W1 - IR Calc Fundamental		FLOAT	amperes
	33000	W1 - Sum trip IA	2	FLOAT	amperes
	33002	W1 - Sum trip IB	2	FLOAT	amperes
	33004	W1 - Sum trip IC	2	FLOAT	amperes
	33500	W2 - Sum trip IA	2	FLOAT	amperes
	33502	W2 - Sum trip IB	2	FLOAT	amperes
	33504	W2 - Sum trip IC	2	FLOAT	amperes
	33020	W1 - IR Angle Calculated	2	FLOAT	degrees-phase
	33022	W1 - IX Angle Measured	2	FLOAT	degrees-phase
	33024	W1 - IA angle	2	FLOAT	degrees-phase
	33026	W1 - IB angle	2	FLOAT	degrees-phase
	33028	W1 - IC angle	2	FLOAT	degrees-phase
	33030	W1 - IA THD	2	FLOAT	amperes
	33032	W1 - IB THD	2	FLOAT	amperes
	33034	W1 - IC THD	2	FLOAT	amperes
	33036	W1 - Percent IA THD	2	FLOAT	percent
	33038	W1 - Percent IB THD	2	FLOAT	percent
	33040	W1 - Percent IC THD	2	FLOAT	percent
	33550	W2 - I0 Fundamental	2	FLOAT	amperes
	33552	W2 - I1 Fundamental	2	FLOAT	amperes

	33554	W2 - I2 Fundamental	2	FLOAT	amperes
	33556	W2 - IR Calc Fundamental	2	FLOAT	amperes
	33548	W2 - IX Meas Fundamental	2	FLOAT	amperes
	33542	W2 - IA Fundamental	2	FLOAT	amperes
	33544	W2 - IB Fundamental	2	FLOAT	amperes
	33546	W2 - IC Fundamental	2	FLOAT	amperes
	33558	W2 - IG H2	2	FLOAT	percent
	33560	W2 - IA H2	2	FLOAT	percent
	33562	W2 - IB H2	2	FLOAT	percent
	33564	W2 - IC H2	2	FLOAT	percent
	33514	W2 - IR Calc RMS	2	FLOAT	amperes
	33512	W2 - IX Meas RMS	2	FLOAT	amperes
	33506	W2 - IA RMS	2	FLOAT	amperes
	33508	W2 - IB RMS	2	FLOAT	amperes
	33510	W2 - IC RMS	2	FLOAT	amperes
	33520	W2 - IR Calc Angle	2	FLOAT	degrees-phase
	33522	W2 - IX Meas Angle	2	FLOAT	degrees-phase
	33524	W2 - IA Angle	2	FLOAT	degrees-phase
	33526	W2 - IB Angle	2	FLOAT	degrees-phase
	33528	W2 - IC Angle	2	FLOAT	degrees-phase
	33530	W2 - IA THD	2	FLOAT	amperes
	33532	W2 - IB THD	2	FLOAT	amperes
	33534	W2 - IC THD	2	FLOAT	amperes
	33536	W2 - Percent IA THD	2	FLOAT	percent
	33538	W2 - Percent IB THD	2	FLOAT	percent
	33540	W2 - Percent IC THD	2	FLOAT	percent
	32018	IdA H2	2	FLOAT	percent
	32020	IdB H2	2	FLOAT	percent
	32022	IdC H2	2	FLOAT	percent
	32024	IdA H4	2	FLOAT	percent
	32026	IdB H4	2	FLOAT	percent
	32028	IdC H4	2	FLOAT	percent
	32030	IdA H5	2	FLOAT	percent
	32032	IdB H5	2	FLOAT	percent

	32034	IdC H5	2	FLOAT	percent
	35032	IRIG-B Edges	2	UINT32	no-units
	35034	IRIG-B Number of Frame Errors	2	UINT32	no-units
	35036	IRIG-B Number of Valid Frames	2	UINT32	no-units
	33006	W1 - IA RMS	2	FLOAT	amperes
	33008	W1 - IB RMS	2	FLOAT	amperes
	33010	W1 - IC RMS	2	FLOAT	amperes
	5308	W1 - IX meas RMS	2	FLOAT	amperes
	5302	W1 - IR calc RMS	2	FLOAT	amperes
Environment		URTD - Aux4 Temperature		FLOAT	degrees-Celsius
	12008	URTD - W1-A Temperature	2	FLOAT	degrees-Celsius
	12010	URTD - W1-B Temperature	2	FLOAT	degrees-Celsius
	12012	URTD - W1-C Temperature	2	FLOAT	degrees-Celsius
	12014	URTD - W2-A Temperature	2	FLOAT	degrees-Celsius
	12016	URTD - W2-B Temperature	2	FLOAT	degrees-Celsius
	12018	URTD - W2-C Temperature	2	FLOAT	degrees-Celsius
	12020	URTD - Amb1 Temperature	2	FLOAT	degrees-Celsius
	12022	URTD - Amb2 Temperature	2	FLOAT	degrees-Celsius
	12024	URTD - Aux1 Temperature	2	FLOAT	degrees-Celsius
	12026	URTD - Aux2 Temperature	2	FLOAT	degrees-Celsius
	12028	URTD - Aux3 Temperature	2	FLOAT	degrees-Celsius
	32000	IdA	2	FLOAT	xIb
	32002	IdB	2	FLOAT	xIb
	32004	IdC	2	FLOAT	xIb
	32006	IrA	2	FLOAT	xIb
	32008	IrB	2	FLOAT	xIb
	32010	IrC	2	FLOAT	xIb
	33016	IdG Winding 1	2	FLOAT	amperes
	33018	IrG Winding 1	2	FLOAT	amperes
	33516	IdG Winding 2	2	FLOAT	amperes
	33518	IrG Winding 2	2	FLOAT	amperes
	6192	W1 - Current Unbalance	2	FLOAT	percent
	5270	W1 - I0 Angle	2	FLOAT	degrees-phase

	5268	W1 - I1 Angle	2	FLOAT	degrees-phase
	5266	W1 - I2 Angle	2	FLOAT	degrees-phase
	30400	URTD - RTD Max	2	FLOAT	degrees-Celsius
	5142	W2 - Current Unbalance	2	FLOAT	percent
		W2 - Angle I0		FLOAT	degrees-phase
		W2 - Angle I1		FLOAT	degrees-phase
		W2 - Angle I2		FLOAT	degrees-phase
	33058	W1 - IG H2	2	FLOAT	percent
	33558	W2 - IG H2	2	FLOAT	percent
	12036	URTD - W1 Temperature Max	2	FLOAT	degrees-Celsius
	31534	URTD - W2 Temperature Max	2	FLOAT	degrees-Celsius
	31536	URTD - Amb Temperature Max	2	FLOAT	degrees-Celsius
	33116	W1 - I1 Fundamental Max	2	FLOAT	amperes
	33118	W1 - I1 Fundamental Min	2	FLOAT	amperes
	33122	W1 - I2 Fundamental Max	2	FLOAT	amperes
	33124	W1 - I2 Fundamental Min	2	FLOAT	amperes
	35026	Thermal Capacity Max	2	FLOAT	percent
	35028	Thermal Capacity Min	2	FLOAT	percent
	33078	W1 - IA Demand	2	FLOAT	amperes
	33084	W1 - IB Demand	2	FLOAT	amperes
	33090	W1 - IC Demand	2	FLOAT	amperes
	5164	W1 - IA Max	2	FLOAT	amperes
	5166	W1 - IB Max	2	FLOAT	amperes
	5168	W1 - IC Max	2	FLOAT	amperes
	5144	W1 - IA Min	2	FLOAT	amperes
	5146	W1 - IB Min	2	FLOAT	amperes
	5148	W1 - IC Min	2	FLOAT	amperes
	31544	URTD - W1-A Max	2	FLOAT	degrees-Celsius
	31546	URTD - W1-B Max	2	FLOAT	degrees-Celsius
	31548	URTD - W1-C Max	2	FLOAT	degrees-Celsius
	31550	URTD - W2-A Max	2	FLOAT	degrees-Celsius
	31552	URTD - W2-B Max	2	FLOAT	degrees-Celsius
	31554	URTD - W2-C Max	2	FLOAT	degrees-Celsius
	31556	URTD - Amb1 Max	2	FLOAT	degrees-Celsius

	31558	URTD - Amb2 Max	2	FLOAT	degrees-Celsius
	31560	URTD - Aux1 Max	2	FLOAT	degrees-Celsius
	31562	URTD - Aux2 Max	2	FLOAT	degrees-Celsius
	31564	URTD - Aux3 Max	2	FLOAT	degrees-Celsius
	33578	W2 - IA Demand	2	FLOAT	amperes
		W2 - IA RMS Max		FLOAT	amperes
		W2 - IA RMS Min		FLOAT	amperes
	33584	W2 - IB Demand	2	FLOAT	amperes
		W2 - IB RMS Max		FLOAT	amperes
		W2 - IB RMS Min		FLOAT	amperes
	33590	W2 - IC Demand	2	FLOAT	amperes
		W2 - IC RMS Max		FLOAT	amperes
		W2 - IC RMS Min		FLOAT	amperes
	33616	W2 - I1 Fundamental Max	2	FLOAT	amperes
	33618	W2 - I1 Fundamental Min	2	FLOAT	amperes
	33622	W2 - I2 Fundamental Max	2	FLOAT	amperes
	33624	W2 - I2 Fundamental Min	2	FLOAT	amperes
	32038	IdA H2 Max	2	FLOAT	percent
	32044	IdB H2 Max	2	FLOAT	percent
	32050	IdC H2 Max	2	FLOAT	percent
	32056	IdA H4 Max	2	FLOAT	percent
	32062	IdB H4 Max	2	FLOAT	percent
	32068	IdC H4 Max	2	FLOAT	percent
	32074	IdA H5 Max	2	FLOAT	percent
	32080	IdB H5 Max	2	FLOAT	percent
	32086	IdC H5 Max	2	FLOAT	percent
	32128	W1 - IR Calc RMS Max	2	FLOAT	amperes
	32130	W1 - IR Calc RMS Min	2	FLOAT	amperes
	32134	W1 - IX Meas RMS Max	2	FLOAT	amperes
	32136	W1 - IX Meas RMS Min	2	FLOAT	amperes
	32140	W1 - Current Unbalance Max	2	FLOAT	percent
	32142	W1 - Current Unbalance Min	2	FLOAT	percent
Motor/Protection/Drive Status		W2 - IR Calc RMS Max		FLOAT	amperes

		W2 - IR Calc RMS Min		FLOAT	amperes	
		W2 - IX Meas RMS Max		FLOAT	amperes	
		W2 - IX Meas RMS Min		FLOAT	amperes	
		W2 - Current Unbalance Max		FLOAT	percent	
		W2 - Current Unbalance Min		FLOAT	percent	
	33080	W1 - IA Peak Demand	2	FLOAT	amperes	
	33086	W1 - IB Peak Demand	2	FLOAT	amperes	
	33092	W1 - IC Peak Demand	2	FLOAT	amperes	
RTD		URTD - Aux4 max		FLOAT	degrees-Celsius	
		URTD - Aux Max		FLOAT	degrees-Celsius	
	33580	W2 - IA Peak Demand	2	FLOAT	amperes	
	33586	W2 - IB Peak Demand	2	FLOAT	amperes	
	33592	W2 - IC Peak Demand	2	FLOAT	amperes	
	33152	IdG W1 - Max	2	FLOAT	amperes	
	33158	IrG W1 - Max	2	FLOAT	amperes	
	33652	IdG W2 - Max	2	FLOAT	amperes	
	33658	IrG W2 - Max	2	FLOAT	amperes	
	32092	IdA Max	2	FLOAT	xIb	
	32098	IdB Max	2	FLOAT	xIb	
	32104	IdC Max	2	FLOAT	xIb	
	32110	IrA Max	2	FLOAT	xIb	
	32116	IrB Max	2	FLOAT	xIb	
	32122	IrC Max	2	FLOAT	xIb	
Motor/Protection/Drive Status		Breaker 1 - Open Capacity		FLOAT	percent	
		Breaker 1 - Isum trip per hour		FLOAT	amperes	
		Breaker 2 - Open Capacity		FLOAT	percent	
		Breaker 2 - Isum trip per hour		FLOAT	amperes	
Control		Acknowledge - LEDs		UINT16	no-units	Yes
		Acknowledge - Relay Outputs		UINT16	no-units	Yes
		Acknowledge - Comm		UINT16	no-units	Yes
		Acknowledge - Device		UINT16	no-units	Yes

	2204	Acknowledge - Trip Command	1	INT16	no-units	Yes
		Reset - Modbus Counter		UINT16	no-units	Yes
		Reset - BKR1 Isum Trip		UINT16	no-units	Yes
		Reset - BKR2 Isum Trip		UINT16	no-units	Yes
		Comm Command 01		UINT16	no-units	Yes
		Comm Command 02		UINT16	no-units	Yes
		Set Parameter Set 1		UINT16	no-units	Yes
		Set Parameter Set 2		UINT16	no-units	Yes
	2220	Breaker 1	1	INT16	no-units	Yes
	2221	Breaker 2	1	INT16	no-units	Yes