EMR-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)

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)
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)
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)
27M1	36200	27-M1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	36201	27-M1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	36206	27-M1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36210	27-M1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	36211	27-M1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
27M2	36300	27-M2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	36301	27-M2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	36306	27-M2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36310	27-M2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	36311	27-M2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
59M1	39100	59M1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39101	59M1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39106	59M1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	39110	59M1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	39111	59M1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)

59M2	39200	59M2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39201	59M2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39206	59M2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	39210	59M2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	39211	59M2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
27A1	36000	27-A1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	36001	27-A1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	36003	27-A1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36004	27-A1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	36005	27-A1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
27A2	36100	27-A2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	36101	27-A2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	36103	27-A2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36104	27-A2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	36105	27-A2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
81-1	39500	81-1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39502	81-1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39508	81-1 Pickup Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39510	81-1 Trip Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39512	81-1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
81-2	39600	81-2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39602	81-2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39608	81-2 Pickup Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39610	81-2 Trip Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39612	81-2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)

81-3	39700	81-3 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39702	81-3 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39708	81-3 Pickup Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39710	81-3 Trip Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39712	81-3 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
81-4	39800	81-4 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39802	81-4 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39808	81-4 Pickup Frequency (collective signal)	1	UINT16	no-units	Inactive(0);Active(1)
	39810	81-4 Trip Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39812	81-4 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
81-5	39900	81-5 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39902	81-5 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39908	81-5 Pickup Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39910	81-5 Trip Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	39912	81-5 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
81-6	40000	81-6 Active	1	UINT16	no-units	Inactive(0);Active(1)
	40002	81-6 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	40008	81-6 Pickup Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	40010	81-6 Trip Frequency collective signal	1	UINT16	no-units	Inactive(0);Active(1)
	40012	81-6 Trip Command	1	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)
Energy Counter Overflow		Counter Overflow Wh Fwd		UINT16	no-units	Inactive(0);Active(1)
		Counter Overflow Wh Rev		UINT16	no-units	Inactive(0);Active(1)
		Counter Overflow VArh Lag		UINT16	no-units	Inactive(0);Active(1)
		Counter Overflow VArh Lead		UINT16	no-units	Inactive(0);Active(1)
		Counter Overflow Wh Net		UINT16	no-units	Inactive(0);Active(1)
		Counter Overflow VArh Net		UINT16	no-units	Inactive(0);Active(1)
		Counter Overflow VAh Net		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow Wh Fwd		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow Wh Rev		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow VArh Lag		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow VArh Lead		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow Wh Net		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow VArh Net		UINT16	no-units	Inactive(0);Active(1)
		Warning Counter Overflow VAh Net		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)
32-1		32-1 Active		UINT16	no-units	Inactive(0);Active(1)
		32-1 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		32-1 Pickup		UINT16	no-units	Inactive(0);Active(1)
		32-1 Trip		UINT16	no-units	Inactive(0);Active(1)
		32-1 Trip Command		UINT16	no-units	Inactive(0);Active(1)
32-2		32-2 Active		UINT16	no-units	Inactive(0);Active(1)

		32-2 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		32-2 Pickup		UINT16	no-units	Inactive(0);Active(1)
		32-2 Trip		UINT16	no-units	Inactive(0);Active(1)
		32-2 Trip Command		UINT16	no-units	Inactive(0);Active(1)
32-3		32-3 Active		UINT16	no-units	Inactive(0);Active(1)
		32-3 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		32-3 Pickup		UINT16	no-units	Inactive(0);Active(1)
		32-3 Trip		UINT16	no-units	Inactive(0);Active(1)
		32-3 Trip Command		UINT16	no-units	Inactive(0);Active(1)
32V-1		32V-1 Active		UINT16	no-units	Inactive(0);Active(1)
		32V-1 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		32V-1 Pickup		UINT16	no-units	Inactive(0);Active(1)
		32V-1 Trip		UINT16	no-units	Inactive(0);Active(1)
		32V-1 Trip Command		UINT16	no-units	Inactive(0);Active(1)
32V-2		32V-2 Active		UINT16	no-units	Inactive(0);Active(1)
		32V-2 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		32V-2 Pickup		UINT16	no-units	Inactive(0);Active(1)
		32V-2 Trip		UINT16	no-units	Inactive(0);Active(1)
		32V-2 Trip Command		UINT16	no-units	Inactive(0);Active(1)
32V-3		32V-3 Active		UINT16	no-units	Inactive(0);Active(1)
		32V-3 Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		32V-3 Pickup		UINT16	no-units	Inactive(0);Active(1)
		32V-3 Trip		UINT16	no-units	Inactive(0);Active(1)
		32V-3 Trip Command		UINT16	no-units	Inactive(0);Active(1)
59A1	38900	59A1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	38901	59A1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	38903	59A1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	38904	59A1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	38905	59A1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)

59A2	39000	59A2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	39001	59A2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	39003	59A2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	39004	59A2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	39005	59A2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
LOP	31080	LOP Active	1	UINT16	no-units	Inactive(0);Active(1)
	31081	LOP Loss of potential blocked	1	UINT16	no-units	Inactive(0);Active(1)
	31082	LOP Loss of potential pickup	1	UINT16	no-units	Inactive(0);Active(1)
46-1	36900	46-1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	36901	46-1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	36903	46-1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36907	46-1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	36905	46-1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
46-2	37000	46-2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	37001	46-2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	37003	46-2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	37004	46-2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	37005	46-2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
PF-55A1	38500	55A1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	38501	55A1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	38503	55A1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	38504	55A1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	38505	55A1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
PF-55A2	38600	55A2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	38601	55A2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	38603	55A2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	38604	55A2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	38605	55A2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)

PF-55D1	38700	55D1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	38701	55D1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	38703	55D1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	38704	55D1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	38705	55D1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
PF-55D2	38800	55D2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	38801	55D2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	38803	55D2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	38804	55D2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	38805	55D2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
47-1	37100	47-1 Active	1	UINT16	no-units	Inactive(0);Active(1)
	37101	47-1 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	37103	47-1 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	37104	47-1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	37105	47-1 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
47-2	37200	47-2 Active	1	UINT16	no-units	Inactive(0);Active(1)
	37201	47-2 Trip Command blocked	1	UINT16	no-units	Inactive(0);Active(1)
	37203	47-2 Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	37204	47-2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
	37205	47-2 Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
Breaker Wear1	30184	Breaker Wear Signal - Isum Trip	1	UINT16	no-units	Inactive(0);Active(1)
	30188	Breaker Wear Signal - Operations Alarm	1	UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear Signal - Wear Level Alarm		UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear Signal - Wear Level Lockout		UINT16	no-units	Inactive(0);Active(1)
		Breaker Wear Signal - Isum Alarm		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)
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)
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 - WD 1 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30524	RTD Signal - WD 1 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30525	RTD Signal - WD 1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30526	RTD Signal - WD 1 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30527	RTD Signal - WD 2 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30528	RTD Signal - WD 2 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30529	RTD Signal - WD 2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30530	RTD Signal - WD 2 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30531	RTD Signal - WD 3 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30532	RTD Signal - WD 3 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30533	RTD Signal - WD 3 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30534	RTD Signal - WD 3 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30535	RTD Signal - WD 4 A Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30536	RTD Signal - WD 4 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30537	RTD Signal - WD 4 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30538	RTD Signal - WD 4 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30539	RTD Signal - WD 5 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30540	RTD Signal - WD 5 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30541	RTD Signal - WD 5 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30542	RTD Signal - WD 5 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30543	RTD Signal - WD 6 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30544	RTD Signal - WD 6 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30545	RTD Signal - WD 6 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30546	RTD Signal - WD 6 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30547	RTD Signal - MB 1 Alarm	1	UINT16	no-units	Inactive(0);Active(1)

30548	RTD Signal - MB 1 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30549	RTD Signal - MB 1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30550	RTD Signal - MB 1 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30551	RTD Signal - MB 2 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30552	RTD Signal - MB 2 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30553	RTD Signal - MB 2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30554	RTD Signal - MB 2 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30555	RTD Signal - LB 1 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30556	RTD Signal - LB 1 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30557	RTD Signal - LB 1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30558	RTD Signal - LB 1 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30559	RTD Signal - LB 2 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30560	RTD Signal - LB 2 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30561	RTD Signal - LB 2 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30562	RTD Signal - LB 2 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
30563	RTD Signal - Aux1 Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30564	RTD Signal - Aux1 Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
30565	RTD Signal - Aux1 Trip	1	UINT16	no-units	Inactive(0);Active(1)
30566	RTD Signal - Aux1 Invalid	1	UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - WD Group Invalid		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - MB Group Invalid		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - LB Group Invalid		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - LB Group Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - LB Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - LB Group Trip		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - MB Group Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - MB Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
	RTD Signal - MB Group Trip		UINT16	no-units	Inactive(0);Active(1)

		RTD Signal - WD Group Alarm		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - WD Group Timeout Alarm		UINT16	no-units	Inactive(0);Active(1)
		RTD Signal - WD 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)
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)

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)
Motor/Protection/Drive Status		Motor - Trip Command Blocked		UINT16	no-units	Inactive(0);Active(1)
		Motor - Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - Thermal Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - Prot Active		UINT16	no-units	Inactive(0);Active(1)
		Motor - Trip		UINT16	no-units	Inactive(0);Active(1)
		Motor - Trip Command		UINT16	no-units	Inactive(0);Active(1)
		Motor - Incomplete Sequence Start to Run		UINT16	no-units	Inactive(0);Active(1)
		Motor - Incomplete Sequence Stop to Start		UINT16	no-units	Inactive(0);Active(1)
		Motor - LAT Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - Trip Phase Reversal		UINT16	no-units	Inactive(0);Active(1)
		Motor - NOCS Block		UINT16	no-units	Inactive(0);Active(1)
	35053	Motor - Running	1	UINT16	no-units	Inactive(0);Active(1)
	35052	Motor - Starting	1	UINT16	no-units	Inactive(0);Active(1)
		Motor - SPH Alarm		UINT16	no-units	Inactive(0);Active(1)
		Motor - SPH Block		UINT16	no-units	Inactive(0);Active(1)
	35054	Motor - Stopped	1	UINT16	no-units	Inactive(0);Active(1)
		Motor - TBS Block		UINT16	no-units	Inactive(0);Active(1)

			Motor - Transition Trip		UINT16	no-units	Inactive(0);Active(1)
			Motor - ZSS Trip		UINT16	no-units	Inactive(0);Active(1)
			Motor - Antibackspin		UINT16	no-units	Inactive(0);Active(1)
		35050	Motor being forced to start	1	UINT16	no-units	Inactive(0);Active(1)
			Motor - GOC Block		UINT16	no-units	Inactive(0);Active(1)
			Motor - IOC Block		UINT16	no-units	Inactive(0);Active(1)
			Motor - JAM Block		UINT16	no-units	Inactive(0);Active(1)
			Motor - Underload Block		UINT16	no-units	Inactive(0);Active(1)
			Motor - Unbalance Block		UINT16	no-units	Inactive(0);Active(1)
		35051	Motor - Cold Start Sequence	1	UINT16	no-units	Inactive(0);Active(1)
		35049	Motor - Start Command	1	UINT16	no-units	Inactive(0);Active(1)
			Motor - Stop Block		UINT16	no-units	Inactive(0);Active(1)
			Motor - Generic Block 1		UINT16	no-units	Inactive(0);Active(1)
			Motor - Generic Block 2		UINT16	no-units	Inactive(0);Active(1)
			Motor - Generic Block 3		UINT16	no-units	Inactive(0);Active(1)
			Motor - Generic Block 4		UINT16	no-units	Inactive(0);Active(1)
			Motor - Generic Block 5		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)
		30383	49 Thermal Model Alarm Pickup	1	UINT16	no-units	Inactive(0);Active(1)
		30384	49 Thermal Model Alarm Timeout	1	UINT16	no-units	Inactive(0);Active(1)
		30385	49 Load Above Service Factor	1	UINT16	no-units	Inactive(0);Active(1)
50Jam1			50J1 Jam Active		UINT16	no-units	Inactive(0);Active(1)
			50J1 Jam Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
		38100	50J1 Jam pickup	1	UINT16	no-units	Inactive(0);Active(1)
		38101	50J1 Jam Trip	1	UINT16	no-units	Inactive(0);Active(1)

	38102	50J1 Jam Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
50Jam2		50J2 Jam Active		UINT16	no-units	Inactive(0);Active(1)
		50J2 Jam Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
	38200	50J2 Jam pickup	1	UINT16	no-units	Inactive(0);Active(1)
	38201	50J2 Jam Trip	1	UINT16	no-units	Inactive(0);Active(1)
	38202	50J2 Jam Trip Command	1	UINT16	no-units	Inactive(0);Active(1)
37-1		37-1 Under Load Active		UINT16	no-units	Inactive(0);Active(1)
		37-1 Under Load Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
	36500	37-1 Under Load pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36501	37-1 Under Load trip	1	UINT16	no-units	Inactive(0);Active(1)
	36502	37-1 Under Load trip command	1	UINT16	no-units	Inactive(0);Active(1)
37-2		37-2 Under Load Active		UINT16	no-units	Inactive(0);Active(1)
		37-2 Under Load Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
	36600	37-2 Under Load pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36601	37-2 Under Load trip	1	UINT16	no-units	Inactive(0);Active(1)
	36602	37-2 Under Load trip command	1	UINT16	no-units	Inactive(0);Active(1)
37-3		37-3 Under Load Active		UINT16	no-units	Inactive(0);Active(1)
		37-3 Under Load Trip Command blocked		UINT16	no-units	Inactive(0);Active(1)
	36700	37-3 Under Load pickup	1	UINT16	no-units	Inactive(0);Active(1)
	36701	37-3 Under Load trip	1	UINT16	no-units	Inactive(0);Active(1)
	36702	37-3 Under Load trip command	1	UINT16	no-units	Inactive(0);Active(1)
Mechanical Load S	35500	Load Shedding Pickup	1	UINT16	no-units	Inactive(0);Active(1)
	35501	Load Shedding Trip	1	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 - VA Power Alarm		UINT16	no-units	Inactive(0);Active(1)
		SYSA - VA Demand Alarm		UINT16	no-units	Inactive(0);Active(1)
		SYSA - VAr Power Alarm		UINT16	no-units	Inactive(0);Active(1)
		SYSA - VAr Demand Alarm		UINT16	no-units	Inactive(0);Active(1)
		SYSA - Voltage THD Alarm		UINT16	no-units	Inactive(0);Active(1)
		SYSA - Watt Power Alarm		UINT16	no-units	Inactive(0);Active(1)
		SYSA - Watt Demand 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)
		SYSA - VA Demand Trip		UINT16	no-units	Inactive(0);Active(1)
		SYSA - VA Power Trip		UINT16	no-units	Inactive(0);Active(1)
		SYSA - VAr Demand Trip		UINT16	no-units	Inactive(0);Active(1)
		SYSA - VAr Power Trip		UINT16	no-units	Inactive(0);Active(1)
		SYSA - Voltage THD Trip		UINT16	no-units	Inactive(0);Active(1)
		SYSA - Watt Demand Trip		UINT16	no-units	Inactive(0);Active(1)
		SYSA - Watt Power 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		Breaker Trip Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker Open Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker Manual Open Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker Close Command		UINT16	no-units	Inactive(0);Active(1)
		Breaker Manual Close Command		UINT16	no-units	Inactive(0);Active(1)
		Slow Breaker		UINT16	no-units	Inactive(0);Active(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	3000	Breaker/Contactor State	1	UINT16	no-units	Disturbed(0);Indeterminate(2);Open(3);Closed(4);Error(5)
Motor Diag		Motor Diagnosis Active		UINT16	no-units	Inactive(0);Active(1)
		Motor Diagnosis BBD Alarm		UINT16	no-units	Inactive(0);Active(1)
		Motor Diagnosis BBD Reliable		UINT16	no-units	Inactive(0);Active(1)
Motor/Protection/Drive Status		Motor - Frequency Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - OverVoltage Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - Power Factor Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - Power Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - UnderVoltage Block		UINT16	no-units	Inactive(0);Active(1)
		Motor - Voltage Unbalance Block		UINT16	no-units	Inactive(0);Active(1)
RTD	30567	RTD Signal - Any RTD Group Alarm	1	UINT16	no-units	Inactive(0);Active(1)
	30568	RTD Signal - Any RTD Group Timeout Alarm	1	UINT16	no-units	Inactive(0);Active(1)
	30569	RTD Signal - Any RTD Group Trip	1	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 - WD1 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31019	URTD - WD2 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31020	URTD - WD3 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31021	URTD - WD4 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31022	URTD - WD5 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31023	URTD - WD6 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31024	URTD - MB1 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31025	URTD - MB2 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31026	URTD - LB1 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31027	URTD - LB2 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31028	URTD - Aux1 supervision	1	UINT16	no-units	Inactive(0);Active(1)
	31029	URTD - URTD supervision	1	UINT16	no-units	Inactive(0);Active(1)
Service		Signal Generator Running		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	Trip Command Counter	2	UINT32	no-units
	2108	Build	24	ASCII	no-units
	3084	Number of Operating Hours	1	UINT16	hours
	5122	I0 Fund	2	FLOAT	amperes
	5118	I1 Fund	2	FLOAT	amperes
	5120	I2 Fund	2	FLOAT	amperes
	11000	Frequency	2	FLOAT	hertz
	8268	Vab Fundamental	2	FLOAT	volts
	8272	Vbc Fundamental	2	FLOAT	volts
	8276	Vca Fundamental	2	FLOAT	volts
	8270	Van Fundamental	2	FLOAT	volts
	8274	Vbn Fundamental	2	FLOAT	volts
	8278	Vcn Fundamental	2	FLOAT	volts
Power Quality		VX Fund		FLOAT	volts
	4191	V(Zero Sequence) Magnitude	2	FLOAT	volts
	4183	V(Positive Sequence) Magnitude	2	FLOAT	volts
	4187	V(Negative Sequence) Magnitude	2	FLOAT	volts
	6218	PF Displacement	2	FLOAT	power-factor
Power Quality		VR Fund		FLOAT	volts
	7004	Forward Real Energy	2	FLOAT	watt-hours
	7006	Reverse Real Energy	2	FLOAT	watt-hours
	7012	Lagging Reactive Energy	2	FLOAT	volt-ampere-reactive-hours
	7010	Leading Reactive Energy	2	FLOAT	volt-ampere-reactive-hours

	33000	Sum trip IA	2	FLOAT	amperes
	33002	Sum trip IB	2	FLOAT	amperes
	33004	Sum trip IC	2	FLOAT	amperes
	33020	IR Angle Calculated	2	FLOAT	degrees-phase
	33022	IX Angle Measured	2	FLOAT	degrees-phase
	33024	IA angle	2	FLOAT	degrees-phase
	33026	IB angle	2	FLOAT	degrees-phase
	33028	IC angle	2	FLOAT	degrees-phase
	33030	IA THD	2	FLOAT	amperes
	33032	IB THD	2	FLOAT	amperes
	33034	IC THD	2	FLOAT	amperes
	33036	Percent IA THD	2	FLOAT	percent
	33038	Percent IB THD	2	FLOAT	percent
	33040	Percent IC THD	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
	5002	IA RMS	2	FLOAT	amperes
	5004	IB RMS	2	FLOAT	amperes
	5006	IC RMS	2	FLOAT	amperes
	5308	IX meas RMS	2	FLOAT	amperes
	5302	IR calc RMS	2	FLOAT	amperes
Environment	12008	Winding Temperature 1	2	FLOAT	degrees-Celsius
	12010	Winding Temperature 2	2	FLOAT	degrees-Celsius
	12012	Winding Temperature 3	2	FLOAT	degrees-Celsius
	12014	Winding Temperature 4	2	FLOAT	degrees-Celsius
	12016	Winding Temperature 5	2	FLOAT	degrees-Celsius
	12018	Winding Temperature 6	2	FLOAT	degrees-Celsius
	12020	Motor Bearing Temperature 1	2	FLOAT	degrees-Celsius
	12022	Motor Bearing Temperature 2	2	FLOAT	degrees-Celsius
	12024	Load Bearing Temperature 1	2	FLOAT	degrees-Celsius
	12026	Load Bearing Temperature 2	2	FLOAT	degrees-Celsius
	12028	Auxiliary Temperature	2	FLOAT	degrees-Celsius

	6192	Percent Current Unbalance	2	FLOAT	percent
	5270	I(Zero Sequence) Phase	2	FLOAT	degrees-phase
	5268	I(Positive Sequence) Phase	2	FLOAT	degrees-phase
	5266	I(Negative Sequence) Phase	2	FLOAT	degrees-phase
	4435	Vr angle calculated	2	FLOAT	degrees-phase
	4437	Vx angle measured	2	FLOAT	degrees-phase
	4417	Vab Phase	2	FLOAT	degrees-phase
	4429	Van Phase	2	FLOAT	degrees-phase
	4419	Vbc Phase	2	FLOAT	degrees-phase
	4431	Vbn Phase	2	FLOAT	degrees-phase
	4421	Vca Phase	2	FLOAT	degrees-phase
	4433	Vcn Phase	2	FLOAT	degrees-phase
	4495	V(Zero Sequence) Phase	2	FLOAT	degrees-phase
	4493	V(Positive Sequence) Phase	2	FLOAT	degrees-phase
	4491	V(Negative Sequence) Phase	2	FLOAT	degrees-phase
	8036	Van THD	2	FLOAT	volts
	8030	Vab THD	2	FLOAT	volts
	8038	Vbn THD	2	FLOAT	volts
	8032	Vbc THD	2	FLOAT	volts
	8040	Vcn THD	2	FLOAT	volts
	8034	Vca THD	2	FLOAT	volts
	8154	Percent THD Van	2	FLOAT	percent
	8148	Percent THD Vab	2	FLOAT	percent
	8156	Percent THD Vbn	2	FLOAT	percent
	8150	Percent THD Vbc	2	FLOAT	percent
	8158	Percent THD Vcn	2	FLOAT	percent
	8152	Percent THD Vca	2	FLOAT	percent
	31606	Vr Calculated RMS	2	FLOAT	volts
	31614	Vr Calculated RMS	2	FLOAT	volts
	4010	Van	2	FLOAT	volts
	4002	Vab	2	FLOAT	volts
	4012	Vbn	2	FLOAT	volts
	4004	Vbc	2	FLOAT	volts
	4014	Vcn	2	FLOAT	volts

	4006	Vca	2	FLOAT	volts
	4166	Voltage Unbalance	2	FLOAT	percent
	6006	System Watt RMS	2	FLOAT	watts
	6070	System VA RMS	2	FLOAT	volt-amperes
	6220	PF Apparent	2	FLOAT	power-factor
	6134	System VAR RMS	2	FLOAT	volt-amperes-reactive
	7008	Net Real Energy	2	FLOAT	watt-hours
	7014	Net Reactive Energy	2	FLOAT	volt-ampere-reactive-hours
	7016	Apparent Energy	2	FLOAT	volt-ampere-hours
	35061	Anti-backspin time remaining	2	UINT32	seconds
	6186	Percent Full Load A	2	FLOAT	percent
	6188	Percent Full Load B	2	FLOAT	percent
	6190	Percent Full Load C	2	FLOAT	percent
	35055	Number of cold starts available	2	UINT32	no-units
	35057	Number of starts per hour available	2	UINT32	no-units
	35059	Time between starts countdown time remaining	2	UINT32	seconds
	3119	Thermal Capacity Used	1	UINT16	percent
	35024	Thermal Capacity Remaining	2	FLOAT	percent
	30400	Max Temp for all valid RTD channels (Present)	2	FLOAT	degrees-Celsius
	12036	Max WD Temp (Present)	2	FLOAT	degrees-Celsius
	12038	Max MB Temp (Present)	2	FLOAT	degrees-Celsius
	12043	Max LB Temp (Present)	2	FLOAT	degrees-Celsius
	5012	Average Phase Current	2	FLOAT	amperes
	5020	Percent Full Load Current Average	2	FLOAT	percent
Status		Number of Operating Hours (Resettable)		FLOAT	hours
32 Alarm/Trip Counters		32[1] - nAlarms		FLOAT	no-units
		32[1] - nTrips		FLOAT	no-units

		32[2] - nAlarms		FLOAT	no-units
		32[2] - nTrips		FLOAT	no-units
		32[3] - nAlarms		FLOAT	no-units
		32[3] - nTrips		FLOAT	no-units
		32V[1] - nAlarms		FLOAT	no-units
		32V[1] - nTrips		FLOAT	no-units
		32V[2] - nAlarms		FLOAT	no-units
		32V[2] - nTrips		FLOAT	no-units
		32V[3] - nAlarms		FLOAT	no-units
		32V[3] - nTrips		FLOAT	no-units
PF55 Alarm/Trip Counters		PF-55A[1] - nAlarms		FLOAT	no-units
		PF-55A[1] - nTrips		FLOAT	no-units
		PF-55A[2] - nAlarms		FLOAT	no-units
		PF-55A[2] - nTrips		FLOAT	no-units
		PF-55D[1] - nAlarms		FLOAT	no-units
		PF-55D[1] - nTrips		FLOAT	no-units
		PF-55D[2] - nAlarms		FLOAT	no-units
		PF-55D[2] - nTrips		FLOAT	no-units
59 Alarm/Trip Counters		59A[1] - nAlarms		FLOAT	no-units
		59A[1] - nTrips		FLOAT	no-units
		59A[2] - nAlarms		FLOAT	no-units
		59A[2] - nTrips		FLOAT	no-units
	11027	Max Frequency	2	FLOAT	hertz
	11022	Min Frequency	2	FLOAT	hertz
	4219	Positive Sequence Voltage Max	2	FLOAT	volts
	4207	Positive Sequence Voltage Min	2	FLOAT	volts
	4223	Negative Sequence Voltage Max	2	FLOAT	volts
	4211	Negative Sequence Voltage Min	2	FLOAT	volts
	33116	Positive Sequence Current Max	2	FLOAT	amperes
	33118	Positive Sequence Current Min	2	FLOAT	amperes

33122	Negative Sequence Current Max	2	FLOAT	amperes
33124	Negative Sequence Current Min	2	FLOAT	amperes
6288	Max System PF (Disp)	2	FLOAT	power-factor
6268	Min System PF (Disp)	2	FLOAT	power-factor
5250	Demand Ia	2	FLOAT	amperes
5252	Demand Ib	2	FLOAT	amperes
5254	Demand Ic	2	FLOAT	amperes
5164	Ia Max	2	FLOAT	amperes
5166	Ib Max	2	FLOAT	amperes
5168	Ic Max	2	FLOAT	amperes
5144	Ia Min	2	FLOAT	amperes
5146	Ib Min	2	FLOAT	amperes
5148	Ic Min	2	FLOAT	amperes
31522	URTD - WD1 min	2	FLOAT	degrees-Celsius
31524	URTD - WD2 min	2	FLOAT	degrees-Celsius
31526	URTD - WD3 min	2	FLOAT	degrees-Celsius
31528	URTD - WD4 min	2	FLOAT	degrees-Celsius
31530	URTD - WD5 min	2	FLOAT	degrees-Celsius
31532	URTD - WD6 min	2	FLOAT	degrees-Celsius
31534	URTD - MB1 min	2	FLOAT	degrees-Celsius
31536	URTD - MB2 min	2	FLOAT	degrees-Celsius
31538	URTD - LB1 min	2	FLOAT	degrees-Celsius
31540	URTD - LB2 min	2	FLOAT	degrees-Celsius
31542	URTD - Aux1 min	2	FLOAT	degrees-Celsius
31544	URTD - WD1 max	2	FLOAT	degrees-Celsius
31546	URTD - WD2 max	2	FLOAT	degrees-Celsius
31548	URTD - WD3 max	2	FLOAT	degrees-Celsius
31550	URTD - WD4 max	2	FLOAT	degrees-Celsius
31552	URTD - WD5 max	2	FLOAT	degrees-Celsius
31554	URTD - WD6 max	2	FLOAT	degrees-Celsius
31556	URTD - MB1 max	2	FLOAT	degrees-Celsius
31558	URTD - MB2 max	2	FLOAT	degrees-Celsius

31560	URTD - LB1 max	2	FLOAT	degrees-Celsius
31562	URTD - LB2 max	2	FLOAT	degrees-Celsius
31564	URTD - Aux1 max	2	FLOAT	degrees-Celsius
32128	Ir Calculated Max	2	FLOAT	amperes
32130	Ir Calculated Min	2	FLOAT	amperes
32134	Ix Measured Max	2	FLOAT	amperes
32136	Ix Measured Min	2	FLOAT	amperes
32140	Phase Current Unbalance Interval Max	2	FLOAT	percent
32142	Phase Current Unbalance Interval Min	2	FLOAT	percent
31602	Vr Calculated Max	2	FLOAT	volts
31604	Vr Calculated Min	2	FLOAT	volts
31610	Vx Measured Max	2	FLOAT	volts
31612	Vx Measured Min	2	FLOAT	volts
4306	Max Vab	2	FLOAT	volts
4241	Min Vab	2	FLOAT	volts
4296	Max Van	2	FLOAT	volts
4231	Min Van	2	FLOAT	volts
4308	Max Vbc	2	FLOAT	volts
4243	Min Vbc	2	FLOAT	volts
4298	Max Vbn	2	FLOAT	volts
4233	Min Vbn	2	FLOAT	volts
4310	Max Vca	2	FLOAT	volts
4245	Min Vca	2	FLOAT	volts
4300	Max Vcn	2	FLOAT	volts
4235	Min Vcn	2	FLOAT	volts
31618	Voltage Unbalance Max	2	FLOAT	percent
31620	Voltage Unbalance Min	2	FLOAT	percent
7023	Demand Watts	2	FLOAT	watts
6014	Max Real Power	2	FLOAT	watts
6356	Min Real Power	2	FLOAT	watts
7387	Demand VAs	2	FLOAT	volt-amperes
6078	Max Apparent Power	2	FLOAT	volt-amperes

	6364	Min Apparent Power	2	FLOAT	volt-amperes
	6248	Max System PF (App)	2	FLOAT	power-factor
	6228	Min System PF (App)	2	FLOAT	power-factor
	7029	Demand VARs	2	FLOAT	volt-amperes-reactive
	6142	Max Reactive Power	2	FLOAT	volt-amperes-reactive
	6420	Min Reactive Power	2	FLOAT	volt-amperes-reactive
	38001	50J[1] - nTrips	1	UINT16	no-units
	38003	50J[2] - nTrips	1	UINT16	no-units
	35063	Highest current in run mode	2	FLOAT	amperes
	35065	Highest current in start mode	2	FLOAT	amperes
	3093	Operations Count	1	UINT16	no-units
	3114	Run Time	1	UINT16	hours
	35067	Total number of starts of the motor counter	2	UINT32	no-units
	35069	Total run time of the motor	2	UINT32	hours
	35071	Emergency over rides counter	2	UINT32	no-units
	35073	Motor - Incomplete Sequence Trips	2	UINT32	no-units
	35075	Motor - Transition Trips	2	UINT32	no-units
	35077	Motor - Zero Speed Switch Trips	2	UINT32	no-units
	35079	Motor - Phase Reversal Trips	2	UINT32	no-units
	35600	Max LB Temp (Historic)	2	FLOAT	degrees-Celsius
	35602	Max MB Temp (Historic)	2	FLOAT	degrees-Celsius
	35604	Max WD Temp (Historic)	2	FLOAT	degrees-Celsius
	35606	URTD Aux - nAlarms	2	UINT32	no-units
	35608	URTD Aux - nTrips	2	UINT32	no-units
	35610	URTD Channel Failures counter	2	UINT32	no-units
	35612	URTD LB - nAlarms	2	UINT32	no-units
	35614	URTD LB - nTrips	2	UINT32	no-units
	35616	URTD MB - nAlarms	2	UINT32	no-units
	35618	URTD MB - nTrips	2	UINT32	no-units
	35620	URTD WD - nAlarms	2	UINT32	no-units
	35622	URTD WD - nTrips	2	UINT32	no-units
	36401	37[1] - nTrips	1	UINT16	no-units

36403	37[2] - nTrips	1	UINT16	no-units
36405	37[3] - nTrips	1	UINT16	no-units
36400	37[1] - nAlarms	1	UINT16	no-units
36402	37[2] - nAlarms	1	UINT16	no-units
36404	37[3] - nAlarms	1	UINT16	no-units
35624	Starts per Hour Blocks counter	2	UINT32	no-units
35626	Time Between Start Blocks counter	2	UINT32	no-units
30386	49 - nAlarms	1	UINT16	no-units
30387	49 - nTrips	1	UINT16	no-units
38000	50J[1] - nAlarms	1	UINT16	no-units
38002	50J[2] - nAlarms	1	UINT16	no-units
38004	50P[1] - nAlarms	1	UINT16	no-units
38005	50P[1] - nTrips	1	UINT16	no-units
38006	50P[2] - nAlarms	1	UINT16	no-units
38007	50P[2] - nTrips	1	UINT16	no-units
38008	50P[3] - nAlarms	1	UINT16	no-units
38009	50P[3] - nTrips	1	UINT16	no-units
38404	51P[1] - nAlarms	1	UINT16	no-units
38405	51P[1] - nTrips	1	UINT16	no-units
38406	51P[2] - nAlarms	1	UINT16	no-units
38407	51P[2] - nTrips	1	UINT16	no-units
38408	51P[3] - nAlarms	1	UINT16	no-units
38409	51P[3] - nTrips	1	UINT16	no-units
38014	50X[1] - nAlarms	1	UINT16	no-units
38015	50X[1] - nTrips	1	UINT16	no-units
38016	50X[2] - nAlarms	1	UINT16	no-units
38017	50X[2] - nTrips	1	UINT16	no-units
38414	51X[1] - nAlarms	1	UINT16	no-units
38415	51X[1] - nTrips	1	UINT16	no-units
38416	51X[2] - nAlarms	1	UINT16	no-units
38417	51X[2] - nTrips	1	UINT16	no-units
38010	50R[1] - nAlarms	1	UINT16	no-units
38011	50R[1] - nTrips	1	UINT16	no-units

	38012	50R[2] - nAlarms	1	UINT16	no-units
	38013	50R[2] - nTrips	1	UINT16	no-units
	38410	51R[1] - nAlarms	1	UINT16	no-units
	38411	51R[1] - nTrips	1	UINT16	no-units
	38412	51R[2] - nAlarms	1	UINT16	no-units
	38413	51R[2] - nTrips	1	UINT16	no-units
	32144	Highest % Unbalance	2	FLOAT	percent
	36800	46[1] - nAlarms	1	UINT16	no-units
	36801	46[1] - nTrips	1	UINT16	no-units
	36802	46[2] - nAlarms	1	UINT16	no-units
	36803	46[2] - nTrips	1	UINT16	no-units
	32146	Current 3Phase FLA demand	2	FLOAT	FLA
	32148	IA FLA avg	2	FLOAT	FLA
	32150	IA FLA max	2	FLOAT	FLA
	32152	IA FLA min	2	FLOAT	FLA
	32154	IB FLA avg	2	FLOAT	FLA
	32156	IB FLA max	2	FLOAT	FLA
	32158	IB FLA min	2	FLOAT	FLA
	32160	IC FLA avg	2	FLOAT	FLA
	32162	IC FLA max	2	FLOAT	FLA
	32164	IC FLA min	2	FLOAT	FLA
	5014	Peak Demand Ia	2	FLOAT	amperes
	5016	Peak Demand Ib	2	FLOAT	amperes
	5018	Peak Demand Ic	2	FLOAT	amperes
	7040	Peak Demand Watts	2	FLOAT	watts
	7045	Peak Demand VARs	2	FLOAT	volt-amperes-reactive
	7389	Peak Demand VAs	2	FLOAT	volt-amperes
RTD		Max Aux Temp (Present)		FLOAT	degrees-Celsius
		Max Aux Temp (Historic)		FLOAT	degrees-Celsius
27 Alarm/Trip Counters		27M[1] - nAlarms		FLOAT	no-units
		27M[1] - nTrips		FLOAT	no-units
		27M[2] - nAlarms		FLOAT	no-units

	27M[2] - nTrips	FLOAT	no-units	
59 Alarm/Trip Counters	59M[1] - nAlarms	FLOAT	no-units	
	59M[1] - nTrips	FLOAT	no-units	
	59M[2] - nAlarms	FLOAT	no-units	
	59M[2] - nTrips	FLOAT	no-units	
27 Alarm/Trip Counters	27A[1] - nTrips	FLOAT	no-units	
	27A[1] - nAlarms	FLOAT	no-units	
	27A[2] - nTrips	FLOAT	no-units	
	27A[2] - nAlarms	FLOAT	no-units	
81 Alarm/Trip Counters	81[1] - nTrips	FLOAT	no-units	
	81[1] - nAlarms	FLOAT	no-units	
	81[2] - nTrips	FLOAT	no-units	
	81[2] - nAlarms	FLOAT	no-units	
	81[3] - nTrips	FLOAT	no-units	
	81[3] - nAlarms	FLOAT	no-units	
	81[4] - nTrips	FLOAT	no-units	
	81[4] - nAlarms	FLOAT	no-units	
	81[5] - nTrips	FLOAT	no-units	
	81[5] - nAlarms	FLOAT	no-units	
	81[6] - nTrips	FLOAT	no-units	
	81[6] - nAlarms	FLOAT	no-units	
47 Alarm/Trip Counters	47[1] - nTrips	FLOAT	no-units	
	47[1] - nAlarms	FLOAT	no-units	
	47[2] - nTrips	FLOAT	no-units	
	47[2] - nAlarms	FLOAT	no-units	
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	
2206	Reset - All Energy Counters	1	INT16	no-units	Yes	
	Reset - BKR 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-Contactor	1	INT16	no-units	Yes	
	Reset All Counters (Alarm	Trip	and Total)		UINT16	no-units