MP-4000

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
System ID	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		
Status	3000	Status	1	UINT16	no-units		Ready - Stopped(0);Running(1);Tripped(2);Alarmed(3)

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
							Unknown(0);Normal(1);External(7);Instantaneous Overcurrent(11);Ground Fault Trip(13);Override(16);RAM Failure(18);ROM Failure(19);Phase Unbalance(22);I2T(25);Jam(26);Underload(27);Trip Bypass(28);Remote(29);AD Converter Failure(32);Reverse Sequence(33);Incomplete Sequence(34);Opto Coupler Failure(35);Incomplete Transition(36);Overflow(37);Winding Temperature(39);Bearing Temperature(40);Load Bearing Temperature(41);Starts per Hour Exceeded(43);Program(74);Auxillary(82);Start(110);INCOM(122);RTD Failure(170);Anti Backspin(171);Zero Speed(172);Time Between Starts(173);Multiple Reasons(174);RTD Link Failure(221);Programming Error(222);Differential(223);Auxillary Temperature(224);Ground(225);Disarmed(226);Stop(227);Reset(228);59 Over Voltage(309);27 Under Voltage(310);81U Under Frequency(313);81O Over Frequency(314);47 Voltage Unbalance(316);55 Apparent Power Factor(317);32 Overpower/Underpower(329)
	3001	Status Reason	1	UINT16	no-units		
	3119	Percent Motor Thermal Capacity	1	UINT16	percent		
	3110	Remaining starts in starts/time	1	UINT16	minutes		
	3092	Time left in oldest start	1	UINT16	minutes		
	3093	Operations Count	1	UINT16	no-units		

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
	3114	Run Time	1	UINT16	hours		
Meters	12231	Time of Last Reset	3	TIME	no-units		
	4002	Vab	2	FLOAT	volts		
	4004	Vbc	2	FLOAT	volts		
	4006	Vca	2	FLOAT	volts		
	4008	V(L-L) Average	2	FLOAT	volts		
	4010	Van	2	FLOAT	volts		
	4012	Vbn	2	FLOAT	volts		
	4014	Vcn	2	FLOAT	volts		
	4016	V(L-N) Average	2	FLOAT	volts		
	5002	Ia	2	FLOAT	amperes		
	5004	Ib	2	FLOAT	amperes		
	5006	Ic	2	FLOAT	amperes		
	5008	Ig	2	FLOAT	amperes		
	5012	Iavg	2	FLOAT	amperes		
	6000	Real Power Phase A	2	FLOAT	watts		
	6002	Real Power Phase B	2	FLOAT	watts		
	6004	Real Power Phase C	2	FLOAT	watts		
	6006	Real Power	2	FLOAT	watts		
	6064	Apparent Power Phase A	2	FLOAT	volt-amperes		
	6066	Apparent Power Phase B	2	FLOAT	volt-amperes		
	6068	Apparent Power Phase C	2	FLOAT	volt-amperes		
	6070	Apparent Power	2	FLOAT	volt-amperes		
	6128	Reactive Power Phase A	2	FLOAT	volt-amperes-reactive		
	6130	Reactive Power Phase B	2	FLOAT	volt-amperes-reactive		
	6132	Reactive Power Phase C	2	FLOAT	volt-amperes-reactive		
	6212	PF App Phase A	2	FLOAT	power-factor		
	6214	PF App Phase B	2	FLOAT	power-factor		
	6216	PF App Phase C	2	FLOAT	power-factor		

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
	6134	Reactive Power	2	FLOAT	volt-amperes-reactive		
	6220	PF Apparent	2	FLOAT	power-factor		
	6180	K-Factor	2	FLOAT	no-units		
	6182	THD Factor	2	FLOAT	no-units		
	6186	Percent Full Load A	2	FLOAT	percent		
	6188	Percent Full Load B	2	FLOAT	percent		
	6190	Percent Full Load C	2	FLOAT	percent		
	6192	Percent Current Unbalance	2	FLOAT	percent		
	7004	Forward Real Energy	2	FLOAT	watt-hours		
	7006	Reverse Real Energy	2	FLOAT	watt-hours		
	7008	Net Real Energy	2	FLOAT	watt-hours		
	7010	Leading Reactive Energy	2	FLOAT	volt-ampere-reactive-hours		
	7012	Lagging Reactive Energy	2	FLOAT	volt-ampere-reactive-hours		
	7014	Net Reactive Energy	2	FLOAT	volt-ampere-reactive-hours		
	7016	Apparent Energy	2	FLOAT	volt-ampere-hours		
	7628	Total Reactive Energy	2	FLOAT	volt-ampere-reactive-hours		
	7679	Total Real Energy	2	FLOAT	watt-hours		
	10281	Discrete Input 1	1	UINT16	no-units		Off(0);On(1)
	10282	Discrete Input 2	1	UINT16	no-units		Off(0);On(1)
	11000	Frequency	2	FLOAT	hertz		
	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		

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
	12026	Load Bearing Temperature 2	2	FLOAT	degrees-Celsius		
	12028	Auxiliary Temperature	2	FLOAT	degrees-Celsius		
	12210	Delay Until Next Start	2	UINT32	minutes		
Alarms	13442	AD Converter Error Flag	1	UINT16	no-units		False(0);True(1)
	13445	Anti Backspin Flag	1	UINT16	no-units		False(0);True(1)
	13449	Battery Backed RAM Error Flag	1	UINT16	no-units		False(0);True(1)
	13462	Trip By-pass Flag	1	UINT16	no-units		False(0);True(1)
	13465	Differential Trip Flag	1	UINT16	no-units		False(0);True(1)
	13468	Ground Fault Trip Flag	1	UINT16	no-units		False(0);True(1)
	13469	Ground Fault Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13472	I2T Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13473	I2T Trip Flag	1	UINT16	no-units		False(0);True(1)
	13479	Jam Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13480	Jam Trip Flag	1	UINT16	no-units		False(0);True(1)
	13481	Load Bearing Temperature Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13482	Load Bearing Temperature Trip Flag	1	UINT16	no-units		False(0);True(1)
	13490	Motor Bearing Temperature Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13491	Motor Bearing Temperature Trip Flag	1	UINT16	no-units		False(0);True(1)
	13492	Motor Winding Temperature Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13493	Motor Winding Temperature Trip Flag	1	UINT16	no-units		False(0);True(1)
	13494	Opto-coupler Error Flag	1	UINT16	no-units		False(0);True(1)
	13503	Phase Unbalance Alarm Flag	1	UINT16	no-units		False(0);True(1)

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
	13504	Phase Unbalance Trip Flag	1	UINT16	no-units		False(0);True(1)
	13506	Program Mode Flag	1	UINT16	no-units		False(0);True(1)
	13508	RAM Error Flag	1	UINT16	no-units		False(0);True(1)
	13509	Relay Disarmed Flag	1	UINT16	no-units		False(0);True(1)
	13510	Remote Trip Flag	1	UINT16	no-units		False(0);True(1)
	13513	ROM Error Flag	1	UINT16	no-units		False(0);True(1)
	13514	RTD Failure Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13515	Incomplete Sequence Trip Flag	1	UINT16	no-units		False(0);True(1)
	13519	Time Between Starts Trip Flag	1	UINT16	no-units		False(0);True(1)
	13520	Incomplete Transition Trip Flag	1	UINT16	no-units		False(0);True(1)
	13529	Under Load Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13530	Under Load Trip Flag	1	UINT16	no-units		False(0);True(1)
	13533	URTD Comm Failure Alarm Flag	1	UINT16	no-units		False(0);True(1)
	13540	Zero Speed Switch Trip Flag	1	UINT16	no-units		False(0);True(1)
	13609	Over Voltage	1	UINT16	no-units		False(0);True(1)
	13610	Under Voltage	1	UINT16	no-units		False(0);True(1)
	13613	Under Frequency	1	UINT16	no-units		False(0);True(1)
	13614	Over Frequency	1	UINT16	no-units		False(0);True(1)
	14004	Ambient Temperature Alarm	1	UINT16	no-units		False(0);True(1)
	14005	Power Factor Alarm	1	UINT16	no-units		False(0);True(1)
	14006	Starts Per Hour Alarm	1	UINT16	no-units		False(0);True(1)
	14007	Under Power Alarm	1	UINT16	no-units		False(0);True(1)
	14008	Voltage Phase-Unbalance Alarm	1	UINT16	no-units		False(0);True(1)
	14009	Ambient Temperature Trip	1	UINT16	no-units		False(0);True(1)

Category	Modbus TCP Register	Description	Register Count	Type ID	Units	Writable	Possible Values
	14010	External Trip	1	UINT16	no-units		False(0);True(1)
	14011	Instantaneous Over Current Trip	1	UINT16	no-units		False(0);True(1)
	14012	Overfrequency Trip	1	UINT16	no-units		False(0);True(1)
	14013	Overvoltage Trip	1	UINT16	no-units		False(0);True(1)
	14014	Power Factor Trip	1	UINT16	no-units		False(0);True(1)
	14015	Reverse Sequence Trip	1	UINT16	no-units		False(0);True(1)
	14016	Starts Per Hour Trip	1	UINT16	no-units		False(0);True(1)
	14017	Under Frequency Trip	1	UINT16	no-units		False(0);True(1)
	14018	Under Power Trip	1	UINT16	no-units		False(0);True(1)
	14019	Under Voltage Trip	1	UINT16	no-units		False(0);True(1)
	14020	Voltage Phase-Unbalance Trip	1	UINT16	no-units		False(0);True(1)
Controls	2200	Set the Receive Date and Time Now	1	INT16	no-units		
	2203	Reset Alarm	1	INT16	no-units	Yes	
	2204	Reset Trip	1	INT16	no-units	Yes	
	2266	Reset Motor Data Maximum Values	1	INT16	no-units	Yes	
	2206	Reset Energy	1	INT16	no-units	Yes	
	2222	Release Time-Stamped Major Event Buffer	1	INT16	no-units	Yes	
	2224	Reset INCOM Slave Interface Statistics	1	INT16	no-units	Yes	
	2225	Reset Product Specific Statistics	1	INT16	no-units	Yes	