



Powerware® 9315 Reverse Transfer (RT) Single Module UPS

Modbus® Profile

164950162 Rev B

Read Input Status

Modbus Function Code 02

Input registers start at 10000.

Register	Name	Value	Format	Unit
1	On Battery	0	BOOL	Status
10	On Bypass	1	BOOL	Status
11	System Normal	0	BOOL	Status
16	UPS Off	0	BOOL	Status
NOTE Registers 1 – 16 are mutually exclusive.				
112	Rectifier Status	1	BOOL	Status
113	Rectifier Input Status	1	BOOL	Status
114	Bypass Status	0	BOOL	Status
115	Bypass Input Status	1	BOOL	Status
116	Input Circuit Breaker Status (CB1)	1	BOOL	Status
117	Battery Disconnect Status	1	BOOL	Status
118	Inverter Disconnect Status	1	BOOL	Status
119	Inverter Status	1	BOOL	Status
120	UPM Normal	0	BOOL	Status
121	UPM On Battery	0	BOOL	Status
122	UPM Bypass (Off Line)	0	BOOL	Status
123	UPM Notice	0	BOOL	Status
124	UPM Alarm	0	BOOL	Status
125	UPM Standby	0	BOOL	Status
144	Inverter AC over voltage	0	BOOL	Status
145	Inverter AC under voltage	0	BOOL	Status
146	Inverter under or over frequency	0	BOOL	Status

Register	Name	Value	Format	Unit
147	Bypass AC over voltage	0	BOOL	Status
148	Bypass AC under voltage	0	BOOL	Status
149	Bypass under or over frequency	0	BOOL	Status
150	Input AC over voltage	0	BOOL	Status
151	Input AC under voltage	0	BOOL	Status
152	Input under or over frequency	0	BOOL	Status
153	Output AC over voltage	0	BOOL	Status
154	Output AC under voltage	0	BOOL	Status
155	Output under or over frequency	0	BOOL	Status
158	Building Alarm 6	0	BOOL	Status
159	Building Alarm 5	0	BOOL	Status
160	Building Alarm 4	0	BOOL	Status
161	Building Alarm 3	0	BOOL	Status
162	Building Alarm 2	1	BOOL	Status
163	Building Alarm 1	0	BOOL	Status
169	Output overload	0	BOOL	Status
172	DC link over voltage	0	BOOL	Status
173	DC link under voltage	0	BOOL	Status
174	Rectifier failed	0	BOOL	Status
176	Battery contactor fail	0	BOOL	Status
177	Bypass breaker fail	0	BOOL	Status
191	Battery current limit	0	BOOL	Status
194	Output current over 100%	0	BOOL	Status
199	Shutdown imminent	0	BOOL	Status
200	Battery low	0	BOOL	Status
212	Battery DC over voltage	0	BOOL	Status
214	Power supply failure	0	BOOL	Status
229	Network not responding	0	BOOL	Status

Register	Name	Value	Format	Unit
241	Emergency shutdown command	0	BOOL	Status
249	Bypass not available	0	BOOL	Status
251	Battery contactor open	0	BOOL	Status
252	Inverter contactor open	0	BOOL	Status
270	Battery totally discharged	0	BOOL	Status
295	Battery not charged	0	BOOL	Status
312	UPS On Battery	0	BOOL	Status
313	UPS On Bypass	1	BOOL	Status
314	Load Dumped (Load Power Off)	0	BOOL	Status
337	Fan Failure	0	BOOL	Status
345	Transformer Over Temperature	0	BOOL	Status
361	Input Breaker Failed	0	BOOL	Status

Read Input Registers

Modbus Function Code 04

Input registers start at 30000.

Register	Meter Name	Scale	Unit
1	OUTPUT VOLTS AB	/10	Volts
2	OUTPUT VOLTS BC	/10	Volts
3	OUTPUT VOLTS CA	/10	Volts
4	INPUT VOLTS AB	/10	Volts
5	INPUT VOLTS BC	/10	Volts
6	INPUT VOLTS CA	/10	Volts
10	BYPASS VOLTS AB	/10	Volts
11	BYPASS VOLTS BC	/10	Volts
12	BYPASS VOLTS CA	/10	Volts
19	INPUT CURRENT PHASE A	/10	Amps

Register	Meter Name	Scale	Unit
20	INPUT CURRENT PHASE B	/10	Amps
21	INPUT CURRENT PHASE C	/10	Amps
22	OUTPUT TRUE POWER	/10	kW
23	INPUT TRUE POWER	/10	kW
24	OUTPUT APPARENT POWER	/10	kVA
25	INPUT APPARENT POWER	/10	kVA
26	OUTPUT POWER FACTOR	/100	--
27	INPUT POWER FACTOR	/100	--
28	OUTPUT FREQUENCY	/10	Hz
29	INPUT FREQUENCY	/10	Hz
31	BYPASS FREQUENCY	/10	Hz
33	BATTERY CURRENT	/10	Amps
34	BATTERY VOLTAGE	/10	Volts
35	% BATTERY LEFT	/10	%
36	BATTERY TIME REMAINING	/10	Minutes
66	LOAD CURRENT PHASE A	/10	Amps
67	LOAD CURRENT PHASE B	/10	Amps
68	LOAD CURRENT PHASE C	/10	Amps
69	LOAD CURRENT PHASE A BAR CHART	/10	Amps
70	LOAD CURRENT PHASE B BAR CHART	/10	Amps
71	LOAD CURRENT PHASE C BAR CHART	/10	Amps
72	OUTPUT VA BAR CHART	/10	kVA
79	OUTPUT VOLTS A	/10	Volts
80	OUTPUT VOLTS B	/10	Volts
81	OUTPUT VOLTS C	/10	Volts