CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
0	-			-				
1	-			-				
2	-			-				
3	-			-				
4	-			-				
5	-			-				
6	-			-				
7	-			-				
8	-			-				
9	-			-				
10	Error Log - Most recent	40010	Register	Read only	Integer			Error Log 1 Module number
11	Error Log - Most recent	40011	Register	Read only	Integer			Error Log 1 Line number
12	Error Log	40012	Register	Read only	Integer			Error Log 2 Module number
13	Error Log	40013	Register	Read only	Integer			Error Log 2 Line number
14	Error Log	40014	Register	Read only	Integer			Error Log 3 Module number
15	Error Log	40015	Register	Read only	Integer			Error Log 3 Line number
16	Error Log	40016	Register	Read only	Integer			Error Log 4 Module number
17	Error Log	40017	Register	Read only	Integer			Error Log 4 Line number
18	Error Log	40018	Register	Read only	Integer			Error Log 5 Module number
19	Error Log	40019	Register	Read only	Integer			Error Log 5 Line number
20	Error Log	40020	Register	Read only	Integer			Error Log 6 Module number
21	Error Log	40021	Register	Read only	Integer			Error Log 6 Line number
22	Error Log	40022	Register	Read only	Integer			Error Log 7 Module number
23	Error Log	40023	Register	Read only	Integer			Error Log 7 Line number
24	Error Log -Oldest	40024	Register	Read only	Integer			Error Log 8 Module number
25	Error Log -Oldest	40025	Register	Read only	Integer			Error Log 8 Line number
26	-			-				
27	Hardware configuration	40027	Register	Read only	Integer			Equivalent to Hardware config in uMatrixWin Utilities
28	-			-				
29	-			-				
30	Phase Slip Line to Bus	40030	Register	Read only	Float	180.00	-180.00	Divide by 100 in Citect before displaying. Absolute value of phase angle from Line to Bus in degrees
31	-			-				
32	-			-				
33	-			-				
34	Phase Angle - Phase A to B	40034	Register	Read only	Float	180.00	-180.00	Divide by 100 in Citect before displaying. Phase angle from Line to Bus in degrees
35	-			-				
36	-			-				
37	-			-				
38	-			-				
39	-			-				
40	-			-				
41	-			-				
42	Modbus address	40042	Register	Read/Write	Integer	247	1	
43	-			-				
44	-			-				
45	-			-				
46	-			-				
47	-			-				
48	-			-				
49	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
100	-			-				
101	-			-				
102	-			-				
103	-			-				
104	-			-				
105	-			-				
106	-			-				
107	Temperature	40107	Register	Read only	Float	93.90	-3.50	Divide by 100 in Citect before displaying. Value in Celcius
108	Line Frequency	40108	Register	Read only	Float	327.67	7.63	Divide by 100 in Citect before displaying. Value in Hertz
109	Bus Frequency	40109	Register	Read only	Float	327.67	7.63	Divide by 100 in Citect before displaying. Value in Hertz
110	-			-				
111	-			-				
112	Line Voltage - Fast	40112	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V or 63.5 nominal secondary voltage
113	Bus Voltage - Fast	40113	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V or 63.5 nominal secondary voltage
114	Line Voltage - Filtered	40114	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V or 63.5 nominal secondary voltage
115	Bus Voltage - Filtered	40115	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V or 63.5 nominal secondary voltage
116	-			-				
117	-			-				
118	-			-				
119	-			-				
120	-			-				
121	-			-				
122	-			-				
123	-			-				
124	-			-				
125	-			-				
126	-			-				
127	-			-				
128	-			-				
129	-			-				
130	-			-				
131	-			-				
132	-			-				
133	-			-				
134	-			-				
135	-			-				
136	-			-				
137	-			-				
138	-			-				
139	-			-				
140	-			-				
141	-			-				
142	-			-				
143	-			-				
144	-			-				
145	-			-				
146	-			-				
147	-			-				
148	-			-				
149	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
150	-			-				
151	-			-				
152	-			-				
153	-			-				
154	-			-				
155	-			-				
156	-			-				
157	-			-				
158	-			-				
159	-			-				
160	-			-				
161	-			-				
162	-			-				
163	-			-				
164	-			-				
165	-			-				
166	-			-				
167	-			-				
168	-			-				
169	-			-				
170	-			-				
171	-			-				
172	-			-				
173	-			-				
174	-			-				
175	-			-				
176	-			-				
177	-			-				
178	-			-				
179	-			-				
180	-			-				
181	-			-				
182	-			-				
183	-			-				
184	-			-				
185	-			-				
186	-			-				
187	-			-				
188	-			-				
189	-			-				
190	-			-				
191	-			-				
192	-			-				
193	-			-				
194	-			-				
195	-			-				
196	-			-				
197	-			-				
198	-			-				
199	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
200	-			-				
201	-			-				
202	-			-				
203	-			-				
204	-			-				
205	-			-				
206	-			-				
207	-			-				
208	-			-				
209	-			-				
210	-			-				
211	-			-				
212	-			-				
213	-			-				
214	-			-				
215	-			-				
216	-			-				
217	-			-				
218	-			-				
219	-			-				
220	-			-				
221	-			-				
222	-			-				
223	-			-				
224	-			-				
225	-			-				
226	-			-				
227	-			-				
228	-			-				
229	-			-				
230	-			-				
231	-			-				
232	-			-				
233	-			-				
234	-			-				
235	-			-				
236	-			-				
237	-			-				
238	-			-				
239	-			-				
240	Scaled Line Voltage - Fast	40240	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V nominal secondary Line voltage
241	Scaled Bus Voltage - Fast	40241	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V nominal secondary Bus voltage
242	-			-				
243	-			-				
244	Scaled Line Voltage - Filtered	40244	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V nominal secondary Line voltage
245	Scaled Bus Voltage - Filtered	40245	Register	Read only	Float	146.00	0.00	Divide by 100 in Citect before displaying. Value scaled for 110V nominal secondary Bus voltage
246	Scaled Primary Line Voltage	40246	Register	Read only	Float	500.00	0.00	Divide by 100 in Citect before displaying. Value scaled for nominal primary Line voltage
247	Scaled Primary Bus Voltage	40247	Register	Read only	Float	500.00	0.00	Divide by 100 in Citect before displaying. Value scaled for nominal primary Bus voltage
248	-			-				
249	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
250	-			-				
251	-			-				
252	-			-				
253	-			-				
254	-			-				
255	-			-				
256	-			-				
257	-			-				
258	-			-				
259	-			-				
260	-			-				
261	-			-				
262	-			-				
263	-			-				
264	-			-				
265	-			-				
266	-			-				
267	-			-				
268	-			-				
269	-			-				
556	Line secondary Voltage Calibration Adjust	40556	Register	Read/Write	Float	5.00	-5.00	Divide by 100 in Citect before displaying.
557	Bus secondary Voltage Calibration Adjust	40557	Register	Read/Write	Float	5.00	-5.00	Divide by 100 in Citect before displaying.
558	Voltage Difference Threshold	40558	Register	Read/Write	Float	44.00	2.00	Divide by 100 in Citect before displaying. Voltage Difference Setpoint
559	Slip Frequency Threshold	40559	Register	Read/Write	Float	2.00	0.05	Divide by 100 in Citect before displaying. Slip Frequency Setpoint
560	Line Under-voltage Threshold	40560	Register	Read/Write	Float	288.00	22.00	Divide by 100 in Citect before displaying. Line Under-voltage Setpoint
561	Bus Under-voltage Threshold	40561	Register	Read/Write	Float	288.00	22.00	Divide by 100 in Citect before displaying. Bus Under-voltage Setpoint
562	Phase Slip Threshold	40562	Register	Read/Write	Float	90.00	5.00	Divide by 100 in Citect before displaying. Phase Slip Setpoint
563	Live Line Threshold	40563	Register	Read/Write	Float	288.00	16.50	Divide by 100 in Citect before displaying. Live Line Setpoint
564	Live Bus Threshold	40564	Register	Read/Write	Float	288.00	16.50	Divide by 100 in Citect before displaying. Live Bus Setpoint
565	Slip timer Delay	40565	Register	Read/Write	Float	100.00	0.10	Divide by 100 in Citect before displaying. Slip timer Delay time in seconds
566	Dead Line Threshold	40566	Register	Read/Write	Float	283.00	11.50	Divide by 100 in Citect before displaying. Dead Line Setpoint
567	Dead Bus Threshold	40567	Register	Read/Write	Float	283.00	11.50	Divide by 100 in Citect before displaying. Dead Bus Setpoint
568	VT Primary Volts	40568	Register	Read/Write	Float	500.00	0.50	Divide by 100 in Citect before displaying. VT Primary nominal Voltage in kV
569	-			-				
570	-			-				
571	-			-				
572	-			-				
573	-			-				
574	-			-				
575	-			-				
576	-			-				
577	-			-				
578	-			-				
579	-			-				
600	Check Enable Input State	00600	Coil	Read only	Bit	TRUE	FALSE	True if Synch Check enabled.
601	Check Start Enable Input State	00601	Coil	Read only	Bit	TRUE	FALSE	True if Synch Check Start enabled.
602	Bypass Enable Input State	00602	Coil	Read only	Bit	TRUE	FALSE	True if Synch Check Bypass enabled.
603	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
604	-			-				
605	-			-				
606	-			-				
607	-			-				
608	"SET" Key State	00608	Coil	Read only	Bit	TRUE	FALSE	True if "SET" Key pressed
609	"DATA" Key State	00609	Coil	Read only	Bit	TRUE	FALSE	True if "DATA" Key pressed
610	"UP" Key State	00610	Coil	Read only	Bit	TRUE	FALSE	True if "UP" Key pressed
611	"DOWN" Key State	00611	Coil	Read only	Bit	TRUE	FALSE	True if "DOWN" Key pressed
612	"SELECT" Key State	00612	Coil	Read only	Bit	TRUE	FALSE	True if "SELECT" Key pressed
613	-			-				
614	-			-				
615	Host Flags Reset Input	00615	Coil	Read only	Bit	TRUE	FALSE	Rests false. Must be pulsed true for at least 40msec to clear front panel LEDs
616	-			-				
617	-			-				
618	-			-				
619	-			-				
620	-			-				
621	-			-				
622	Phase Slip exceeds Threshold	00622	Coil	Read only	Bit	TRUE	FALSE	True if Phase Slip is greater than the Phase Slip Threshold
623	-			-				
624	Live Line OK	00624	Coil	Read only	Bit	TRUE	FALSE	True if Line voltage exceeds Live Line Threshold
625	Live Bus OK	00625	Coil	Read only	Bit	TRUE	FALSE	True if Bus voltage exceeds Live Bus Threshold
626	Dead Line OK	00626	Coil	Read only	Bit	TRUE	FALSE	True if Line voltage is less than Dead Line Threshold
627	Dead Bus OK	00627	Coil	Read only	Bit	TRUE	FALSE	True if Bus voltage is less than Dead Bus Threshold
628	-			-				
629	-			-				
630	-			-				
631	-			-				
648	Slip time Timing	00648	Coil	Read only	Bit	TRUE	FALSE	True if Slip timer Timing
649	Slip time Tripped	00649	Coil	Read only	Bit	TRUE	FALSE	True if Slip timer has expired
650	-			-				
651	-			-				
652	-			-				
653	-			-				
654	-			-				
655	-			-				
656	-			-				
657	-			-				
658	-			-				
659	-			-				
660	-			-				
661	-			-				
662	-			-				
663	-			-				
664	Frequency OK	00664	Coil	Read only	Bit	TRUE	FALSE	True if Slip Frequency is less than the Slip Frequency threshold.
665	Voltage Difference block	00665	Coil	Read only	Bit	TRUE	FALSE	True if difference between Line and Bus voltage exceeds the Difference threshold
666	Under-voltage block	00666	Coil	Read only	Bit	TRUE	FALSE	True if Line or Bus voltage is less than the Under-voltage thresholds
667	-			-				
668	Voltage enable	00668	Coil	Read only	Bit	TRUE	FALSE	True if Line and Bus voltage exceed the Under-voltage thresholds
669	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
670	Close Command	00670	Coil	Read only	Bit	TRUE	FALSE	True if Synch Chech close is commanded
671	-			-				
672	Manual Start	00672	Coil	Read only	Bit	TRUE	FALSE	True if Manual check Start is commanded
673	Synchronised	00673	Coil	Read only	Bit	TRUE	FALSE	True if Line and Bus are in total Synch
674	-			-				
675	-			-				
676	-			-				
677	-			-				
678	-			-				
679	Synch Bypass close Permission	00679	Coil	Read only	Bit	TRUE	FALSE	True if Synch check Bypass Close is permitted
680	-			-				
681	-			-				
682	-			-				
683	-			-				
684	-			-				
685	-			-				
686	-			-				
687	-			-				
688	-			-				
689	-			-				
690	-			-				
691	-			-				
692	-			-				
693	-			-				
694	-			-				
695	-			-				
760	-			-				
761	-			-				
762	-			-				
763	-			-				
764	-			-				
765	-			-				
766	-			-				
767	-			-				
768	-			-				
769	-			-				
770	-			-				
771	-			-				
772	-			-				
773	-			-				
774	-			-				
775	-			-				
776	-			-				
777	-			-				
778	-			-				
779	-			-				
780	-			-				
781	-			-				
782	-			-				
783	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
784	-			-				
785	-			-				
786	-			-				
787	-			-				
788	-			-				
789	-			-				
790	-			-				
791	-			-				
808	-			-				
809	-			-				
810	-			-				
811	-			-				
812	-			-				
813	-			-				
814	-			-				
815	-			-				
816	-			-				
817	-			-				
818	-			-				
819	-			-				
820	-			-				
821	-			-				
822	-			-				
823	-			-				
880	VT Tap 1	00880	Coil	Read/Write	Bit	TRUE	FALSE	00 = 63.5V secondary, 01 = 110V secondary, 10 = 240V secondary, 11 = NOT USED
881	VT Tap 2	00881	Coil	Read/Write	Bit	TRUE	FALSE	
882	Voltage difference enable	00882	Coil	Read/Write	Bit	TRUE	FALSE	True to allow Voltage difference as part of Synch Check
883	Slip Frequency enable	00883	Coil	Read/Write	Bit	TRUE	FALSE	True to allow Slip Frequency as part of Synch Check
884	Line Under-voltage enable	00884	Coil	Read/Write	Bit	TRUE	FALSE	True to allow Line Under-voltage as part of Synch Check
885	Bus Under-voltage enable	00885	Coil	Read/Write	Bit	TRUE	FALSE	True to allow Bus Under-voltage as part of Synch Check
886	Check Mode	00886	Coil	Read/Write	Bit	TRUE	FALSE	True to allow Auto Synch Check. False to allow Manual Synch Check
887	Close Guard enable	00887	Coil	Read/Write	Bit	TRUE	FALSE	True to set Close Guard ON. False to set Close Guard OFF
888	Slip Timer enable	00888	Coil	Read/Write	Bit	TRUE	FALSE	True to enable Slip time delay. False for instantaneous Slip
889	Bypass LL & DB enable	00889	Coil	Read/Write	Bit	TRUE	FALSE	True to enable Live Line and Dead Bus Bypass
890	Bypass DL & LB enable	00890	Coil	Read/Write	Bit	TRUE	FALSE	True to enable Dead Line and Live Bus Bypass
891	Bypass DL & DB enable	00891	Coil	Read/Write	Bit	TRUE	FALSE	True to enable Dead Line and Dead Bus Bypass
892	-			-				
893	-			-				
894	-			-				
895	-			-				
896	-			-				
897	-			-				
898	-			-				
899	-			-				
900	-			-				
901	-			-				
902	-			-				
903	-			-				
920	-			-				
921	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
922	-			-				
923	-			-				
924	-			-				
925	-			-				
926	-			-				
927	-			-				
928	Modbus Parity Enable	00928	Coil	Read/Write	Bit	TRUE	FALSE	True if Parity checking enabled for the Modbus port
929	Modbus Parity Odd/Even	00929	Coil	Read/Write	Bit	TRUE	FALSE	True if Parity checking is set to Odd for the Modbus port
930	Modbus Baud 0	00930	Coil	Read/Write	Bit	TRUE	FALSE	Modbus port baud rate selector
931	Modbus Baud 1	00931	Coil	Read/Write	Bit	TRUE	FALSE	Modbus port baud rate selector
932	Modbus Baud 2	00932	Coil	Read/Write	Bit	TRUE	FALSE	Modbus port baud rate selector
933	Modbus data bits	00933	Coil	Read/Write	Bit	TRUE	FALSE	True if the Modbus port uses 7 data bits, else 8 data bits
934	Modbus stop bits	00934	Coil	Read/Write	Bit	TRUE	FALSE	True if the Modbus port uses 2 stop bits, else 1 stop bit
935	-			-				
936	Modbus CDB save	00936	Coil	Read/Write	Bit	TRUE	FALSE	Saves current CDB when pulsed True then False
960	-			-				
961	Close Guard Active alarm	00961	Coil	Read Only	Bit	TRUE	FALSE	True if Close Guard Alarm is active
962	Manual Close Permitted alarm	00962	Coil	Read Only	Bit	TRUE	FALSE	True if Manual Close Permitted Alarm is active
963	-							
964	-							
965	-			-				
966	-			-				
967	-			-				
968	-			-				
969	-			-				
970	-			-				
971	-			-				
972	-			-				
973	-			-				
974	-			-				
975	-			-				
976	-			-				
977	-			-				
978	-			-				
979	-			-				
980	-			-				
981	-			-				
982	-			-				
983	-			-				
984	-			-				
985	-			-				
986	-			-				
987	-			-				
988	-			-				
989	-			-				
990	-			-				
991	-			-				
992	-			-				
993	-			-				
994	-			-				

CDB REGISTER	CONTENTS	MODBUS REGISTER	MODBUS TYPE	ACCESS	DATA TYPE	MAX VALUE	MIN VALUE	COMMENT
995	-			-				
996	-			-				
997	-			-				
998	-			-				
999	-			-				
1000	Relay Serial Number	41000	String	Read only	String	-	-	Occupies 5 integer registers
1005	Relay Hardware Configuration	41005	String	Read only	String	-	-	Occupies 2 integer registers
1007	BIOS Version	41007	String	Read only	String	-	-	Occupies 3 integer registers
1010	Software Model	41010	String	Read only	String	-	-	Occupies 7 integer registers
1017	CDB Name	41017	String	Read only	String	-	-	Occupies 8 integer registers
1025	Software Version	41025	String	Read only	String	-	-	Occupies 3 integer registers