

# ICM450A PLUS+ MODBUS DATA MAPPING

## Discrete Inputs (Read Only)

Address	Field	Comments
10001	Relay State	0 = off, 1 = on
10002	Ctrl State	0 = off, 1 = on

## Input Registers (Read only)

Address	Field	Comments
30001	HW Rev	
30002	SW Rev	
30003	Line 1 Voltage	0 V - 999 V
30004	Line 2 Voltage	0 V - 999 V
30005	Line 3 Voltage	0 V - 999 V
30006	Load 1 Voltage	0 V - 999 V
30007	Load 2 Voltage	0 V - 999 V
30008	Load 3 Voltage	0 V - 999 V
30009	Line_Voltage	190V - 630V
30010	Delay_On_Break	15 sec - 600 sec
30011	Delay_On_Fault	0 sec - 15 sec
30012	Pct_Over_Voltage	2% - 25%
30013	Pct_Under_Voltage	2% - 25%
30014	Pct_Phase_Unbalance	2% - 20%
30015	Reset_Mode_Retries	0 - 10
30016	Cntrl_Mode	0 = off, 1 = on
30017	Ac_Cal_Factor	-10 V - +10 V
30018	Language	0 = English, 1 = Spanish
30019	Current date	5 bits day   4 bits month   7 bits years since 2020
30020	Current time	Minutes since midnight
30021	RS485 Termination Resistor	0 = no, 1 = yes
30022	Fault 0	Most recent always at 0
30023	Fault 1	
30024	Fault 2	
30025	Fault 3	
30026	Fault 4	
30027	Fault 5	
30028	Fault 6	
30029	Fault 7	
30030	Fault 8	
30031	Fault 9	
30032	Fault 10	
30033	Fault 11	
30034	Fault 12	
30035	Fault 13	
30036	Fault 14	
30037	Fault 15	
30038	Fault 16	
30039	Fault 17	
30040	Fault 18	
30041	Fault 19	
30042	Fault 20	
30043	Fault 21	
30044	Fault 22	
30045	Fault 23	
30046	Fault 24	

## Holding registers (Read/Write)

Address	Field	Comments
40001	Line_Voltage	190V - 630V
40002	Delay_On_Break	15 sec - 600 sec (in 15 sec periods)
40003	Delay_On_Fault	0 sec - 15 sec
40004	Pct_Over_Voltage	2% - 25%
40005	Pct_Under_Voltage	2% - 25%
40006	Pct_Phase_Unbalance	2% - 20%
40007	Reset_Mode_Retries	0 - 10
40008	Cntrl_Mode	0 = off, 1 = on
40009	Ac_Cal_Factor	-10 V - +10 V
40010	Language	0 = English, 1 = Spanish
40011	New date	5 bits day   4 bits month   7 bits years since 2020
40012	New time	Minutes since midnight
40013	RS485 Termination Resistor	0 = no, 1 = yes

