

Register Map for Group 5 Controller

The following table describes the mapping of the registers within the Group 5 Controller to Holding Registers defined in the Modbus protocol.

Note: The addresses in the format of 4xxxx follow the MODICON MODBUS protocol for point addressing.

The actual address sent is the Register Address shown in the map minus the value **40001**.

Real Time Data Registers

Register Address	Register Type	Parameter Name	Parameter Description	Data Range	Implemented in Firmware Version
40001-40011			Undefined		
40012	RO	PHASE_0	Phase Shift between Normal & Emergency	-1800 – 1800	607540-023
40013	RO	NFRQ_0	Normal Frequency	0 – 7000	607540-023
40014	RO	EFRQ_0	Emergency Frequency	0 – 7000	607540-023
40015-Bit 0	RO	I_MAIN_ON_N	Main on Normal	Boolean	607540-023
40015-Bit 1	RO	I_MAIN_ON_E	Main on Emergency	Boolean	607540-023
40015-Bit 2	RO	I_AUX_ON_N	Auxiliary on Normal	Boolean	607540-023
40015-Bit 3	RO	I_AUX_ON_E	Auxiliary on Emergency	Boolean	607540-023
40015-Bit 4	RO	N_SrcAvl	Normal Source Available	Boolean	607540-023
40015-Bit 5	RO	E_SrcAvl	Emergency Source Available	Boolean	607540-023
40016-Bit 0	RO	STATPHR.NABC	Normal Phase Rotation is ABC	Boolean	607540-023
40016-Bit 1	RO	STATPHR.NCBA	Normal Phase Rotation is CBA	Boolean	607540-023
40016-Bit 2	RO	STATPHR.EABC	Emergency Phase Rotation is ABC	Boolean	607540-023
40016-Bit 3	RO	STATPHR.ECBA	Emergency Phase Rotation is CBA	Boolean	607540-023
40016-Bit 4	RO	XRO_F11C_LX	Engine Exerciser with Load Active	Boolean	607540-023
40016-Bit 5	RO	SComFeat.XftCommOn	Serial F17 is Active	Boolean	607540-023
40016-Bit 6	RO	I_F17_ON	External F17 is Active	Boolean	607540-023
40017	RO	NV_AB	Normal Voltage Phase AB	0 to 28200	607540-023
40018	RO	NV_BC	Normal Voltage Phase BC	0 to 28200	607540-023
40019	RO	NV_CA	Normal Voltage Phase CA	0 to 28200	607540-023
40020	RO	NVUnblCur	Normal Voltage Unbalance	0 to 99 %	607540-023
40021	RO	EV_AB	Emergency Voltage Phase AB	0 to 28200	607540-023
40022	RO	EV_BC	Emergency Voltage Phase BC	0 to 28200	607540-023
40023	RO	EV_CA	Emergency Voltage Phase CA	0 to 28200	607540-023
40024	RO	EVUnblCur	Emergency Voltage Unbalance	0 to 99 %	607540-023
40025	RO	I_NOM_V	Nominal Voltage	0 to 15	607540-023
40026-Bit 0	RO	I_FRQ_60	Nominal Frequency	Bool (60-50 Hz)	607540-023
40026-Bit 1	RO	I_N3PHASE	Normal Source 3 Phase sensing	Boolean	607540-023
40026-Bit 2	RO	I_E3PHASE	Emergency Source 3 Phase sensing	Boolean	607540-023
40026-Bit 3-4	RO	TSType	Transfer Switch Type (CTTS, OTTS,DTTS)	0 to 3	607540-023
40026-Bit 5	RO	TSBypass	Transfer Switch Bypass or not	Boolean	607540-023
40026-Bit 6	RO	ATS/DualBreaker	Transfer Switch or Dual Breaker	Boolean	607540-033
40027	RO	TSamp	Transfer Switch Amp rating	0 to 15	607540-023
40028-40033	RO	LCD_CP_VER	Control Panel Software version	10 char. string	607540-023
40034-40039	RO	LCD_CP_DATE	Control Panel Software date	10 char. string	607540-023
40040-Bit 0	RO	OPSave.b.ATSLout	Transfer Switch Locked Out	Boolean	607540-023

40040-Bit 1	RO	OPSave.b.XtdPriAl	CTTS extended parallel alarm	Boolean	607540-023
40040-Bit 2	RO	OPSave.b.SyncFail	CTTS failure to synchron alarm	Boolean	607540-023
40040-Bit 3	RO	DTTSLoadDisc	DTTS Load Disconnect	Boolean	607540-023
40040-Bit 4	RO	I EXT PLOCK_ON	External parameter lock is active	Boolean	607540-023
40040-Bit 5	RO	Relay.NR	Engine running	Boolean	607540-023
40040-Bit 6	RO	NBrkrTripped	Normal Breaker Tripped	Boolean	607540-033
40040-Bit 7	RO	EBrkrTripped	Emergency Breaker Tripped	Boolean	607540-033
40041	RO	CPSState	Control Panel State	0 to 255	607540-023
40042	RO	CPStateData	Control Panel Status State Data (→lookup table)	0 to 65535	607540-023
40043-Bit 0	RO	F.F6BOn	Feature 6B	Boolean	607540-023
40043-Bit 1	RO	F.F6COn	Feature 6C	Boolean	607540-023
40043-Bit 2	RO	I.F17_ON	Feature 17	Boolean	607540-023
40043-Bit 3	RO	SComFeat.XftCommOn	Feature 17 Serial	Boolean	607540-023
40043-Bit 4	RO	F.F29On	Feature 29	Boolean	607540-023
40043-Bit 5	RO	F.F30On	Feature 30	Boolean	607540-023
40043-Bit 6	RO	F.F34AOn	Feature 34A	Boolean	607540-023
40043-Bit 7	RO	F.F34BOn	Feature 34B	Boolean	607540-023
40044-Bit 0	RO	F.F89On	Feature 89	Boolean	607540-023
40044-Bit 1	RO	F.CTBypsOn	Feature CT Bypass	Boolean	607540-023
40044-Bit 2	RO	I.ALARM_RST	Feature Alarm Reset	Boolean	607540-023
40044-Bit 3	RO	I.F6D_MAN_ON	Feature 6D	Boolean	607540-023
40044-Bit 4	RO	F.F5On	Feature 5	Boolean	607540-023
40044-Bit 5	RO	I.F5F6Z_ON	Feature 6Z	Boolean	607540-023
40044-Bit 6	RO	F.SComF17Off	Feature 34T	Boolean	607540-023
40045	RW	LogNum	Event number	0 to 99	607540-023
40046	RO	LogYear	Event year	0 to 99	607540-023
40047	RO	LogMonth	Event month	1 to 12	607540-023
40048	RO	LogDayM	Event day of month	1 to 31	607540-023
40049	RO	LogDayW	Event day of week	0 to 6	607540-023
40050	RO	LogHour	Event hour	0 to 23	607540-023
40051	RO	LogMin	Event minute	0 to 59	607540-023
40052	RO	LogSec	Event second	0 to 59	607540-023
40053	RO	LogType	Event type	1 to 6	607540-023
40054	RO	LogCause	Event cause	0 to 8	607540-023
40055-Bit0-6	RO	LogEntNr	Number of entries in the control panel event log	0 to 99	607540-023
40056-40100			Undefined		
40101-Bit0-5	RO	SlcMode	Soft Load Controller mode	0 to 3	607540-023
40101-Bit 6	RO	SlcStat.NBrOpn	SLC Normal Breaker status	Boolean	607540-023
40101-Bit 7	RO	SlcStat.EBrOpn	SLC Emergency Breaker status	Boolean	607540-023