

Inverter Compatibility Sheet for the ME-ARC with Revision 4.0

The ME-ARC has many advanced settings, and is designed to work with the advanced features in your Magnum inverter and/or other Magnum devices (i.e., ME-AGS-N or ME-BMK). The ME-ARC communicates with your inverter to allow these advanced features to be set up or enabled. However, when the ME-ARC is released with a new software revision, some of the features and functionality in this remote may not be available in an inverter or networked accessory that has an earlier software level. In this case, when the advanced setting is requested from the ME-ARC to your inverter (or any other Magnum device networked with the inverter), this setting is not recognized and will not function. Use the steps below to help you determine which ME-ARC (Revision 4.0) menus/features are compatible with your inverter.

1. Go to: <http://magnumenergy.com/inverter-compatibility/> to determine your inverter's compatibility level (L1, L2, L3 or L4).
2. Use the table below to determine which ME-ARC 'Features/Settings' you want to use and what inverter compatibility level is required (see 'Inverter Model/Level Required').
3. If your inverter compatibility level is the same or greater than the 'Inverter Model/Level Required', then your inverter can support the device setting/feature you want.
4. If your inverter does not have the required compatibility level for a feature/setting you want, contact Magnum Energy to determine if there is a software upgrade option for your inverter.

ME-ARC (REVISION 4.0) COMPATIBILITY MATRIX						
Button	FEATURES/SETTINGS			Inverter Model/Level Required	Default setting	User setting
	Main Menu	Menu Heading/Item	Selections/Adjustments Range			
CTRL	01 ACIn Control		Auto Connect	≥Level 1	Auto Connect	
			VDC Connect, Time Connect, AC-In Disabled	≥Level 3 [1]		
			SOC Connect	≥Level 3 [1][6]		
		02 CHG Control	Multi-Stage, Start Float, Restart Bulk	≥Level 4	Multi-Stage	
		03 Gen Control	OFF, ON, AUTO	≥Level 1 [8]	OFF**	
	04 PT Control [F]	04A PT Chg Ctrl	Multi-Stage, Charger Off, Start (Float, Bulk, EQ)	≥Level 1	Multi-Stage	
04B PT Aux Relay Ctrl		DISENGAGE, VDC, FAULT, ENGAGE	≥Level 1	DISENGAGE		
04C PT Alarm Control		OFF, VDC, FAULT, ON	≥Level 1	OFF		
04D PT MPPT Sweep		5 Min, 15 Min, 1 Hour, Fixed	≥Level 1	15 Min		
METER	01 DC Meters	01A DC Volts	Read only display	≥Level 1	Read Only	
		01B DC Amps	Read only display	≥Level 1	Read Only	
	02 AC Meters [5]	02A Output Volts	Read only display	≥Level 4 [3]	Read Only	
		02B Output Hz	Read only display	≥Level 4 [3]	Read Only	
		02C Load Amps	Read only display	≥Level 4 [4]	Read Only	
		02D Input Amps	Read only display	≥Level 4 [4]	Read Only	
		02E Inv/Chg Amps	Read only display	≥Level 4 [4]	Read Only	
		02F Input AC (AC1)	Read only display	MSH Models only	Read Only	
	03 Timers	02G Input AC2	Read only display	MSH-RE Models	Read Only	
		03A Charge Time	Read only display	≥Level 1	Read Only	
		03B Since Absorb Done [F]	Read only display	≥Level 1	Read Only	
	04 AGS Meters	03C Since EQ Start [F]	Read only display	≥Level 1	Read Only	
		04A AGS Status	Read only display	≥Level 1	Read Only	
		04B DC Volts-AGS	Read only display	≥Level 1	Read Only	
		04C Gen Run Time	Read only display	≥Level 1	Read Only	
		04D AGS Temp	Read only display	≥Level 1	Read Only	
		04E Since GenRun	Read only display	≥Level 1	Read Only	
		04F Since 100% [F]	Read only display	≥Level 1 [7]	Read Only	
		04G Hour Meter [F]	Display Resetable	≥Level 1	Resetable	
	05 BMK Meters	04A BMK Status	Read only display	≥Level 1 [7]	Read Only	
04B SOC		Read only display	≥Level 1 [7]	Read Only		
04C DC Volts-BMK		Read only display	≥Level 1 [7]	Read Only		
04D DC Amps-BMK		Read only display	≥Level 1 [7]	Read Only		
04E AH In/Out		Read only display	≥Level 1 [7]	Read Only		
04F Reset AH Out		Display Resetable	≥Level 1 [7]	Resetable		
04G Total AH Out		Display Resetable	≥Level 1 [7]	Resetable		
04H Minimum VDC		Display Resetable	≥Level 1 [7]	Resetable		
06 ACLD Meters [F]	04I Maximum VDC	Display Resetable	≥Level 1 [7]	Resetable		
	04J Days Since 100% SOC [F]	Read only display	≥Level 1 [7]	Read Only		
	06A ACLD Status	Read only display	≥Level 1	Read Only		
	06B ACLD Power Diverted	Read only display	≥Level 1	Read Only		
	06C ACLD Temp	Read only display	≥Level 1	Read Only		
	06D Target Volts	Read only display	≥Level 1	Read Only		
	06E ACLD-X Version	Model displays/Read only display	≥Level 1	Read Only		

METER	07 PT Meters [F]	07A PT Status	PT Status, Power Status, Relay Status		≥Level 1	Read Only	
		07B PV Volts-PT	Read only display		≥Level 1	Read Only	
		07C Bat Volts-PT	Read only display		≥Level 1	Read Only	
		07D Target Volts	Read only display		≥Level 1	Read Only	
		07E Bat Amps-PT	Read only display		≥Level 1	Read Only	
		07F Power to Bat	Now:	Read only display		≥Level 1	Read Only
			Life:	Display Resettable			Resettable
			Reset:	Display Resettable			Resettable
		07G Ground Fault	Read only display		≥Level 1	Read Only	
		07H PT Data	Read only display		≥Level 1	Read Only	
		07I Clear PT Data History	Display Resettable		≥Level 1	Resettable	
07J PT-X Version:	Model displays/Read only display		≥Level 1	Read Only			
01 System Setup	01A Set Clock	Time= 12:00A-11:59P		≥Level 1	12:00A**		
	01B Screen Setup	Brightness:	0-100%		≥Level 1	50%**	
		Contrast:	0-100%			100%**	
		Pwr Save:	OFF, 1-60 Min			15 Min	
	01C Temp Display	Fahrenheit, Celsius		≥Level 1	Fahrenheit		
01D Max Charge Amps [F]	OFF, 20-990 ADC		≥Level 1	200 ADC			
01E Link PT CHG settings [F]	YES, NO		≥Level 1	YES			
02 Invert Setup	02A Search Watts	OFF, 5-50 watts (1 watt increments)		≥Level 1	5 Watts		
	02B LBCO Setting	9.0-12.2* VDC		≥Level 2	10.0* VDC		
	02C AC In - Time	Connect Time=	12:00A-11:45P		≥Level 3 [1]	6:00A	
		Disconnect Time=	12:00A-11:45P			6:00P	
	02D AC In - VDC	Connect Volts=	9.0-15.9*		≥Level 3 [1]	11.0*	
		Disconnect Volts=	9.1-16.0*			14.1*	
	02E AC In - SOC	Connect SOC=	20-99%		≥Level 3 [7]	50%	
Disconnect SOC=		21-100%		100%			
02F Power Up Always	ON, OFF		≥Level 1	OFF			
03 Charger Setup	03A AC Input Amps	AC/AC1 Input=	5-60A		≥Level 1 [1]	30A	
		AC2 Input=	5-60A		MSH-RE Models	20A	
	03B VAC Dropout	AC/AC1 Input=	60-100 VAC, UPS Mode		US Models	80 VAC	
		AC2 Input=	60-100 VAC		MSH-RE Models	75 VAC	
		110-190 VAC, UPS Mode			Export Models	150 VAC	
	03C Battery Type	CC/CV [F]	Gel, Flooded, AGM, AGM2		≥Level 1	Flooded	
			Max Chg Amps =	(OFF, 20A-990 ADC)		≥Level 4	200 ADC
			CV Charge Volts =	(12.0-16.0)*			13.8*
			CV Chg Done=	(Time, Amps, Hold VDC)			Time
			CV Chg Done=	Time (0.1-25.5 Hrs)			2.0 Hrs
			Max CC/CV Time=	(OFF, 0.1-25.5 Hrs)			12.0 Hrs
			ReCharge Volts =	(12.0-16.0)*			12.0*
			CV Chg Done=	Amps (0-250 ADC)			20 ADC
			Max CC/CV Time=	(OFF, 0.1-25.5 Hrs)			12.0 Hrs
			ReCharge Volts =	(12.0-16.0)*			12.0*
CV Chg Done=	Hold CV Chg VDC						
Custom	Absorb Volts	(12.0-16.0)*		≥Level 3 [2]	14.4*		
	Float Volts	(12.0-16.0)*			13.2*		
	EQ Volts	(12.0-16.0)*			15.6*		
	EQ Done Time	(0.1-25.5 Hrs) [F]			4.0 Hrs		
03D Absorb Done	Time=	0.1-25.5 Hrs		≥Level 4 [5]	2.0 Hrs		
	Amps=	0-150 ADC		≥Level 4 [6]	20 ADC		
	SOC=	50-100%		≥Level 4 [6][7]	100%		
03E Max Charge Rate	10-100%			≥Level 2	100%		
	0-100%			≥Level 3			
03F Max Charge Time	0.0-25.5 hours		≥Level 4 [6]	12.0 Hrs			
03G Final Charge Stage	Multi, Float, Silent		≥Level 4 [6]	Multi			
03H EQ Reminder Days [F]	OFF, 1-255		≥Level 1	OFF			
04 AGS Setup	04A Gen Run VDC	Start Gen Volts=	9.0-15.9*		≥Level 1	11.5*	
		Start Volts Delay=	0-127 Sec, 1-127 Min			120 Sec	
		Stop Gen Volts=	9.1-16.0*, Float			14.4*	
		Stop Volts Delay=	0-127 Sec, 1-127 Min			120 Sec	
	04B Gen Run Time	OFF, ON			≥Level 1	OFF	
		Start Gen Time=	12:00A-11:45P			12:00A	
	04C Gen Run Amps	Stop Gen Time=	12:00A-11:45P		12:00A		
		Start Gen AC Amps=	OFF, 5-60A		OFF		
		Start Amps Delay=	0-127 Sec, 1-127 Min		120 Sec		
		Stop Gen AC Amps=	5-60A		4A		
04D Gen Run SOC	Stop Amps Delay=	0-127 Sec, 1-127 Min		120 Sec			
	OFF, Start Gen SOC=	20-90%		OFF			
04E Gen Run Temp	Stop Gen SOC=	21-100%		≥Level 1 [7]	90%		
	Start=	OFF, Ext Input, 65-95F (18-35C)		≥Level 1	OFF		
04F Max Gen Run Time	Time=	0.5-6.0 Hrs		≥Level 1	2.0 Hrs		
	OFF, 0.1-25.5 Hrs			≥Level 1	12.0 Hrs		

SETUP	04 AGS Setup	04G Quiet Time	OFF, ON Start Quiet Time= 12:00A-11:45P Stop Quiet Time= 12:00A-11:45P Quiet Time Topoff= OFF, 30-120Min	≥Level 1	OFF 8:00P 10:00A OFF		
		04H Gen Exercise	Days= OFF, 1-255 days Run Hour/Min/AM-PM= 12:00A-11:45P Run Time= 0.1-25.5 Hrs	≥Level 1	OFF 8:00A 1.0 Hrs		
		04I Gen Warm-up Time	0-127 Sec, 1-127 Min	≥Level 1	60 Sec		
		04J Gen Cooldown Time	0-127 Sec, 1-127 Min	≥Level 1	60 Sec		
		04K Gen 100% SOC Start Days [F]	OFF, 1-255 100% SOC Run Hour/Min/AM-PM= 12:00A-11:45P	≥Level 1 [7]	OFF 12:00A		
		05 BMK Setup	05A Charge Eff	Auto, 50-97%	≥Level 1 [7]	Auto	
		05B AmpHour Size	200-2500 AH	≥Level 1 [7]	400 AH		
	06 PT Setup [F]	06A Battery Type	Gel, Flooded, AGM, AGM2	≥Level 1	Flooded:		
				CC/CV [F]	≥Level 1	Max Chg Amps = (OFF, 20A-990 ADC)	200 ADC
						CV Charge Volts = (12.0-16.6)*	13.8*
						CV Chg Done= (Time, Amps, Hold VDC)	Time
						CV Chg Done= Time (0.1-25.5 Hrs)	2.0 Hrs
						Max CC/CV Time= (OFF, 0.1-25.5 Hrs)	12.0 Hrs
						ReCharge Volts = (9.0-16.0)*	12.0*
						CV Chg Done= Amps (0-250 ADC)	20 ADC
		Max CC/CV Time= (OFF, 0.1-25.5 Hrs)	12.0 Hrs				
		Custom	≥Level 1	ReCharge Volts = (9.0-16.0)*	12.0*		
				CV Chg Done= Hold CV Chg VDC			
				Absorb Volts (12.0-16.6)*	14.4*		
Float Volts (12.0-16.6)*				13.2*			
EQ Done Time (0.1-25.5 Hrs)	15.6*						
06B Absorb Done	Time= 0.1-25.5 Hrs Amps= 0-150 ADC SOC= 50-100% [6]	≥Level 1	2.0 Hrs				
			20 ADC				
			100%				
	06C Max Charge Rate	0-100%	≥Level 1	100%			
	06D Max Charge Time	OFF, 0.1-25.5 Hrs	≥Level 1	12.0 Hrs			
	06E Bulk Start	Daily/SunUp = YES, NO Volts = OFF, 9.0-16.0* SOC = 50%-100% [6]	≥Level 1	YES			
				12.0*			
				80%			
	06F PT Aux Relay	Relay Engage Volts = 8.0-16.6* Relay Engage Delay = 0-127 Sec, 1-127 Min Relay Disengage Volts = 8.0-16.6* Relay Disengage Delay = 0-127 Sec, 1-127 Min	≥Level 1	10.0*			
				10 Sec			
				14.0*			
				10 Sec			
	06G PT Alarm	Alarm ON Volts = 8.0-16.6* Alarm ON Delay = 0-127 Sec, 1-127 Min Alarm OFF Volts = 8.0-16.6* Alarm OFF = 0-127 Sec, 1-127 Min	≥Level 1	10.0*			
10 Sec							
14.0*							
10 Sec							
06H PowerSave PT Display	OFF, 1-60 Min	≥Level 1	15 Min				
TECH	01 Temperatures	Inv BTS:	Read only display	≥Level 1	Read Only		
		Inv Tfmer:	Read only display	≥Level 1	Read Only		
		Inv FETs:	Read only display	≥Level 1	Read Only		
		AGS Sensor:	Read only display	≥Level 1	Read Only		
		ACLD Temp	Read only display	≥Level 1	Read Only		
		PT BTS	Read only display	≥Level 1	Read Only		
		PT FETs	Read only display	≥Level 1	Read Only		
		PT Inductor	Read only display	≥Level 1	Read Only		
02 Versions	Inverter:	Read only display	≥Level 1	Read Only			
	Remote:	Read only display	≥Level 1	Read Only			
	AGS:	Read only display	≥Level 1	Read Only			
	BMK:	Read only display	≥Level 1	Read Only			
	Router:	Read only display	≥Level 1	Read Only			
	ACLD:	Read only display	≥Level 1	Read Only			
04 Fault History	PT:	Read only display	≥Level 1	Read Only			
	03 Inv Model:	Read only display	≥Level 1	Read Only			
	04A Inv Faults	Read only display	≥Level 1	Read Only			
	04A AGS Faults	Read only display	≥Level 1	Read Only			
	04C PT Faults [F]	Read only display	≥Level 1	Read Only			
04D Clear Faults	Display Resettable	≥Level 1	Resettable				
05 SETUP PIN	SETUP PIN =	Unlock SETUP, Lock SETUP, Change PIN	≥Level 1	Unlocked			
06 Ext Control		Read only display	≥Level 1	Read Only			
07 Show All Menus [F]		YES, NO	≥Level 1	NO**			
08 Load Defaults	Defaults in x.xs	Press SELECT (x5 Secs) for default settings	≥Level 1	Read Only			

* 12-volt values shown; for 24-volts systems - multiply by 2 and for 48-volt systems - multiply by 4.

** These settings return to the factory default setting when power to the remote is removed.

[F] Features added to Rev 4.0.

ME-ARC (Rev 4.0) Compatibility Matrix Notes:

[1] Will not work with MM/MM-E/MM-AE/MMS/MMS-E models.

[2] AC Couple Mode activates when Battery Type = Custom with MS-PAE Series \geq Rev 4.1 or MS/MS-PE series \geq 5.0.

[3] The AC output volts/frequency are only accurate when used with MS, MS-PE, MS-PAE or MSH Series inverters.

[4] The AC amps are only accurate and may not be shown unless connected to MS-PE, MS-PAE or MSH Series inverters.

[5] Level 2 and 3 inverters can be used, but:

Level 2 inverters are limited from 1.0 hour to 4.5 hours,

Level 3 inverters <Rev 4.1 are limited from 1.0 hour to 6.5 hours,

Level 3 inverters \geq Rev. 4.1 (and MMS Rev 1.5) are limited from 1.5 hours to 6.5 hours;

Any setting outside these limited ranges is not recognized and reverts to the inverter's default absorption time (2.0 hours).

[6] Requires \geq Level 4 to display.

[7] SOC features require the ME-BMK (Battery Monitor Kit) to be installed.

[8] To manually turn the generator "ON" with the remote, ME-AGS-N rev 5.0 or higher is required.