

Inverter Compatibility Sheet for the ME-ARC with Revision 5.3

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 5.3) menus/features are compatible with your inverter.

1. Go to: <https://www.magnum-dimensions.com/references/magnum-remote-compatibility> to determine your inverter's compatibility level (L1, L2, L3, L4 or L5).
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 5.3) 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	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	02A Output Volts & Hz	Read only display	≥Level 4 [3]	Read Only	
		02B Load Amps	Read only display	≥Level 4 [4]	Read Only	
		02C Input Amps	Read only display	≥Level 4 [4]	Read Only	
		02D Inv/Chg Amps	Read only display	≥Level 4 [4]	Read Only	
		02E Input AC (AC1)	Read only display	MSH Models only	Read Only	
		02F Input AC2	Read only display	MSH-RE Models	Read Only	
	03 Timers	03A Charge Time	Read only display	≥Level 1	Read Only	
		03B Since Absorb Done	Read only display	≥Level 1	Read Only	
		03C Since EQ Start	Read only display	≥Level 1	Read Only	
	04 AGS Meters	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%	Read only display	≥Level 1 [7]	Read Only	
		04G Hour Meter	Display Resetable	≥Level 1	Resetable	
	05 BMK Meters	05A BMK Status	Read only display	≥Level 1 [7]	Read Only	
		05B SOC	Read only display	≥Level 1 [7]	Read Only	
		05C DC Volts-BMK	Read only display	≥Level 1 [7]	Read Only	
		05D DC Amps-BMK	Read only display	≥Level 1 [7]	Read Only	
		05E AH In/Out	Read only display	≥Level 1 [7]	Read Only	
		05F Reset AH Out	Display Resetable	≥Level 1 [7]	Resetable	
		05G Total AH Out	Display Resetable	≥Level 1 [7]	Resetable	
		05H Minimum VDC	Display Resetable	≥Level 1 [7]	Resetable	
05I Maximum VDC		Display Resetable	≥Level 1 [7]	Resetable		
06 ACLD Meters	05J Days Since 100% SOC	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	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	OFF, 20-990 ADC		≥Level 1	200 ADC			
01E Link PT CHG settings	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	9.0-16.0* 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	Gel, Flooded, AGM1, AGM2		≥Level 1	Flooded		
		CC/CV	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	
		Custom	ReCharge Volts = (12.0-16.0)*		≥Level 3 [2]	12.0*	
Absorb Volts (12.0-16.0)*			14.4*				
Float Volts (12.0-16.0)*			13.2*				
03D Absorb Done	EQ Volts (12.0-16.0)*		≥Level 5	15.6*			
	EQ Done Time (0.1-25.5 Hrs)			4.0 Hrs			
	LFP [F]						
03E Max Charge Rate	Time= 0.1-25.5 Hrs		≥Level 4 [5]	2.0 Hrs			
	Amps= 0-250 ADC		≥Level 4 [6]	20 ADC			
	SOC= 50-100%		≥Level 4 [6][7]	100%			
03F Max Charge Time	0-100%		≥Level 2	100%			
	0-100%		≥Level 3				
03G Final Charge Stage	0.0-25.5 hours		≥Level 4 [6]	12.0 Hrs			
03H EQ Reminder Days	Multi, Float, Silent		≥Level 4 [6]	Multi			
03I Start Bulk Always [F]	OFF, 1-255		≥Level 1	OFF			
04 AGS Setup	04A Gen Run VDC	Start Bulk = ON, OFF		≥Level 4	OFF		
		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		
		Stop Gen Time= 12:00A-11:45P			12:00A		
	04C Gen Run Amps	Start Gen AC Amps= OFF, 5-60A		≥Level 4 [4]	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		≥Level 1 [7]	120 Sec			
	OFF, Start Gen SOC= 20-90%			OFF			
04E Gen Run Temp	Stop Gen SOC= 21-100%		≥Level 1	90%			
	Start= OFF, Ext Input, 65-95F (18-35C)			OFF			
04F Max Gen Run Time	Time= 0.5-6.0 Hrs		≥Level 1	2.0 Hrs			
	OFF, 0.1-25.5 Hrs			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	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, 50-99%	≥Level 1 [7]	Auto			
		05B AmpHour Size	200-2500 AH	≥Level 1 [7]	400 AH			
	06 PT Setup	06A Battery Type	Gel, Flooded, AGM1, AGM2	≥Level 1	Flooded: 200 ADC 13.8* Time 2.0 Hrs 12.0 Hrs 12.0* 20 ADC 12.0 Hrs 12.0*			
			CC/CV	Max Chg Amps = (OFF, 20A-990 ADC) CV Charge Volts = (12.0-16.6)* CV Chg Done= (Time, Amps, Hold VDC) CV Chg Done= Time (0.1-25.5 Hrs)	≥Level 1	14.4* 13.2* 15.6* 4.0 Hrs		
			Max CC/CV Time= (OFF, 0.1-25.5 Hrs) ReCharge Volts = (9.0-16.0)* CV Chg Done= Amps (0-250 ADC) Max CC/CV Time= (OFF, 0.1-25.5 Hrs) ReCharge Volts = (9.0-16.0)*					
			Custom	Absorb Volts (12.0-16.6)* Float Volts (12.0-16.6)* EQ Done Time (0.1-25.5 Hrs)				
			06B Absorb Done	Time= 0.1-25.5 Hrs Amps= 0-250 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
			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
		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	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	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 5.0.

ME-ARC (Rev 5.3) 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 when used with 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.