Inverter Compatibility Matrix for the ME-RTR with Version 3.1

The ME-RTR 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-RTR communicates with your inverter to allow these advanced features to be set up or enabled. However, when the ME-RTR 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-RTR 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-RTR (Version 3.1) 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-RTR '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.

Notes for the ME-RTR (Version 3.1) Compatibility Matrix:

* 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 Version 3.1.

[1] Not available on MM/MM-E/MM-AE/MMS/MMS-E models.
[2] AC Couple Mode activates when Battery Type = Custom with MS-PAE Series ≥Rev 4.1 or MS/MS-PE series ≥5.0.
[3] The AC output volts are only accurate when connected to MS, MS-PAE, MS-PE or MSH Series models.
[4] The AC amps displays are not shown unless connected to MS-PAE, MS-PE or MSH Series models.
[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 ≥Rev. 4.1 (and MMS Rev 1.5) are limited from 1.5 hours to 6.5 hours;
Any setting outside these limited ranges are not recognized and reverts to the inverter's default absorption time (2.0 hours).
[6] BM/SOC features require the ME-BMK (Battery Monitor Kit) to be installed.
[7] To manually turn the generator "ON" with the remote, ME-AGS-N rev 5.2 or higher is required.

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Button	Main Menu	Menu Heading/Item	Selections/Adjustments Range	Inverter Model/Level Required	Default setting	User setting
			ME-RTR (VERSION 3.1) COMPATIBILITY MATRIX			
		FEATURES/SETTINGS				
CTRL	01 AC In Control		Auto Connect	≥Level 1	Auto Connect	
			VDC Connect, Time Connect, AC-In Disabled	≥Level 3 [1]		
			SOC Connect [F]	≥Level 3 [1][6]		
	02 CHG Control		Multi-Stage, Start Float[F], Start Bulk	≥Level 4	Multi-Stage	
	03 Gen Control		OFF, ON, AUTO	≥Level 1 [7]	OFF**	
	04 RTR Aux Relay		Force Open, Force Closed, Auto VDC, Auto VDC (BTS Comp) [F], Auto Fault [F], Auto SOC [6][F]	≥Level 1	Force Open	
METER	01 DC Meters	01A DC Volts to Inv	Read only display	≥Level 1	Read Only	
		01B Inv/Chg DC Amps	Read only display	≥Level 1	Read Only	
	02 AC Meters	02A AC Output Volts	Read only display	≥Level 4 [3]	Read Only	
		02B AC Output Hz	Read only display	≥Level 4	Read Only	
		02C System AC Amps	Read only display	≥Level 4 [4]	Read Only	
		02D Inv/Chg Sys Amps	Read only display	≥Level 4 [4]	Read Only	
		02E AC Load Amps	Read only display	≥Level 4 [4]	Read Only	
		02F AC Input Amps	Read only display	≥Level 4 [4]	Read Only	
		02G Inv/Chg AC Amps	Read only display	≥Level 4 [4]	Read Only	
		02H Input Volts AC1 [F]	Read only display	MSH Models only	Read Only	
		02I Input Volts AC2 [F]	Read only display	MSH-RE Models	Read Only	
	03 Timers	03A Charge Time	Read only display	≥Level 1	Read Only	
		03B Days Since [F]	Absorb/CV Done (Read only display)	≥Level 1	Read Only	
			EQ Chg Started (Read only display)	≥Level 1	Read Only	
	04 AGS Meters	04A AGS Status	Read only display	≥Level 1	Read Only	
		04B DC Volts to 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 Run Days	Read only display	≥Level 1	Read Only	
		04F Since 100% Days [F]	Read only display	≥Level 1	Read Only	
		04G Gen Hour Meter [F]	Read only display (Press SELECT to reset)	≥Level 1	Read Only	
	05 BMK Meters	05A BMK SOC	Read only display	≥Level 1 [6]	Read Only	
		05B DC Volts-BMK	Read only display	≥Level 1 [6]	Read Only	
		05C DC Amps-BMK	Read only display	≥Level 1 [6]	Read Only	
		05D Amp Hours In/Out	Read only display	≥Level 1 [6]	Read Only	
		05E Resettable Ahrs	Read only display (Press SELECT to reset)	≥Level 1 [6]	Read Only	
		05F Total kAHrs Out	Read only display (Press SELECT to reset)	≥Level 1 [6]	Read Only	
		05G Minimum VDC	Read only display (Press SELECT to reset)	≥Level 1 [6]	Read Only	
		05H Maximum VDC	Read only display (Press SELECT to reset)	≥Level 1 [6]	Read Only	
		05I Days Since 100% [F]	Read only display	≥Level 1 [6]	Read Only	
SETUP	01 System Setup	01A System Clock	Time= 12:00AM-11:59PM	≥Level 1	12:00AM**	
		01B Screen Setup	Contrast = 0-100%	≥Level 1	100%**	
			Brightness = 0-100%	≥Level 1	50%**	
		01C Power Save	PowerSave=OFF, 1-60 Minutes	≥Level 1	15 min	
			Port LEDs = Auto, OFF	≥Level 1	Auto	
		01D Temp Display	Fahrenheit, Celsius	≥Level 1	Fahrenheit	
		01E Viewing Ports	Auto Scroll = OFF, 1-60 sec	≥Level 1	OFF	
		01F RTR Aux Relay	Open Volts = 8.0-17.0*	≥Level 1	10.0V	
			Close Volts = 8.0-17.0*	≥Level 1	14.0V	
			Open Delay = 0-127secs, 1-127mins	≥Level 1	10secs	
			Close Delay = 0-127secs, 1-127mins	≥Level 1	10secs	
		01G Aux Relay SOC [F]	Open = 20-100%	≥Level 4 [6]	50%	
			Close = 20-100%		100%	
	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= 12:00AM-11:45PM	≥Level 3 [1]	6:00AM	
			Disconnect Time= 12:00AM-11:45PM		6:00PM	
		02D AC In - VDC	Connect Volts= 9.0-15.9* (12V)	≥Level 3 [1]	11.0	
			Disconnect Volts= 9.1-16.0* (12V)		14.1	
		02E AC In - SOC [F]	Connect SOC= 20-99%	≥Level 3 [6]	80%	
			Disconnect SOC= 21-100%		100%	
		02F Power Up Always [F]	NO, YES	≥Level 1	NO	
		02G Inverter Threshold to start Parallel	OFF, 30-90%	MS-PAE & MS-PE only	60%	

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					Range / Description	Level	Default	
SETUP	03 Charger Setup	03A AC Input Amps			AC/AC1 Input= 5-60A	≥Level 1 [1]	30A	
					AC2 Input= 5-60A [F]	MSH-RE Models	20A	
		03B Low VAC Dropout			AC/AC1 Input= 60-100 VAC, UPS Mode	US Models	80 VAC	
					AC Input= 110-190 VAC, UPS Mode	Export Models	150 VAC	
					AC2 Input= 60-100 VAC, UPS Mode	MSH-RE Models	70 VAC	
		03C Battery Type			Gel, Flooded, AGM 1, AGM 2	≥Level 1	Flooded	
			CC/CV [F]		Max Chg Amps = (20A-990A)	≥Level 4	200A	
					CV Chg Volts = (12.0-16.0V)*		13.8V	
					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, 0.1-25.5Hrs)		12.0Hrs	
					DC Volts to ReCharge= (12.0-16.0V)*		12.0V	
					CV Chg Done Amps= (0-250ADC)		20ADC	
					Max CC/CV Time= (OFF, 0.1-25.5Hrs)		12.0Hrs	
					DC Volts to ReCharge= (12.0-16.0V)*		12.0V	
					Hold CV Chg Volts			
			Custom		Absorb Volts = (12.0-16.0V)*	≥Level 3 [2]	14.4V	
					Float Volts = (12.0-16.0V)*		13.2V	
					EQ Volts = (12.0-16.0V)*		15.6V	
					EQ Time = (0.1-25.5Hrs)		4.0 Hrs	
		03D Absorb Done			Time, Amps, SOC		Time	
					Time= 0.1-25.5 Hrs	≥Level 4 [4]	2.0 Hrs	
					Amps= 0-250 ADC	≥Level 4	20 ADC	
					SOC= 50-100%	≥Level 4 [6]	100%	
		03E Max Charge			Rate = 0-100%	≥Level 3	100%	
					Time = OFF, 0.1-25.5 Hrs	≥Level 4	12.0Hrs	
		03F Final Charge Stage			Multi-Stage, Float, Silent		Multi-Stage	
					Multi-Stage	≥Level 1		
					Float	≥Level 4		
					Silent — DC Volts to Rebulk = (12.0-16.0V)*	≥Level 4	12.0V	
		03G Days remind to EQ [F]			OFF, 1-255 days	≥Level 1	OFF	
	04 AGS Setup	04A Gen Run VDC			Start Gen Volts= OFF, 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= Start Gen Time= 12:00AM-11:45PM	≥Level 1	OFF	
					Stop Gen Time= 12:00AM-11:45PM		12:00AM	
		04C Gen Run Amps			Start Gen AC Amps= OFF, 5-60A	≥Level 4	OFF	
					Stop Gen AC Amps= 4-59A		4A	
					Start Amps Delay= 0-127secs, 1-127mins		120secs	
					Stop Amps Delay= 0-127secs, 1-127mins		120secs	
		04D Gen Run SOC			OFF, Start Gen SOC= 20-90%	≥Level 1 [6]	OFF	
					Stop Gen SOC= 21-100%		90%	
		04E Gen Run Temp			Start= OFF, Ext Input, 65-95F (18-35C)	≥Level 1	OFF	
					Time= 0.5-25.5 Hrs		65F/2.0Hrs	
		04F Max Gen Run Time			OFF, 0.1-25.5 Hrs	≥Level 1	12.0 Hrs	
		04G Gen Quiet Time			OFF, ON= Start Quiet Time= 12:00AM-11:45PM	≥Level 1	OFF	
					Stop Quiet Time= 12:00AM-11:45PM		10:00AM	
					Quiet Time Topoff= OFF, 30-120Min		OFF	
		04H Gen Exercise			Days= OFF, 1-255 days	≥Level 1	OFF	
					Run Hour/Min/AM-PM= 12:00A-11:45P		8:00AM	
					Run Time= 0.1-25.5 hours		1.0 Hours	
		04I Gen No-Load Time			Warm-up = 0-127secs, 1-127mins	≥Level 1	60secs	
					Cool-down = 0-127secs, 1-127mins		60secs	
		04J Gen 100% SOC Start [F]			OFF, Days = 1-255	≥Level 1 [6]	OFF	
					Time= 12:00AM-11:45PM		8:00AM	
	05 BMK Setup	05A Charge Eff			Auto, 50-99%	≥Level 1 [6]	Auto	
		05B AmpHour Size			200-2500 AH	≥Level 1 [6]	400 AH	
	06 RC Setup	06A Remote Control			System, Port 1 - Port 6	≥Level 1	System	
TECH	01 Temperatures	01A BTS Temp			Read only display	≥Level 1	Read Only	
		01B INV Tfmer Temp			Read only display	≥Level 1	Read Only	
		01C INV FETs Temp			Read only display	≥Level 1	Read Only	
	02 Port Versions / RTR Version				Read only display / RTR=3.1	≥Level 1	Read Only	
	03 Acc Port Versions				Read only display	≥Level 1	Read Only	
	04 Fault History	INV Faults			Read only display (rotate SELECT for history)	≥Level 1	Read Only	
		AGS Faults [F]			Read only display (rotate SELECT for history)	≥Level 1	Read Only	
		Clear Faults [F]			Press SELECT (x5 Secs) to clear fault history	≥Level 1	Read Only	
	05 SETUP PIN				Locked, Unlocked, Change PIN (PIN= 0000)	≥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 all Defaults				Press SELECT (x5 Secs) for default settings	≥Level 1		