		ME	-ARTR (VERSION 4.0) COMPATIBILITY MATRIX			
Button	FEATURES/SETTINGS			Inverter Model/Level	Default	User
5 n	Main Menu	Menu Heading/Item	Selections/Adjustments Range	Required	setting	setting
	01 AC In Control 02 CHG Control		Auto Connect	≥Level 1	Auto Connect	
			VDC Connect, Time Connect, AC-In Disabled	≥Level 3 [1]		
			SOC Connect Multi-Stage, Start Float, Start Bulk	≥Level 3 [1][6] ≥Level 4	Multi-Stage	
	03 Gen Control		OFF, ON, AUTO	≥Level 4 ≥Level 1 [7]	OFF**	
	04 ARTR Aux Relay		Force Open, Force Closed, Auto VDC, Auto VDC (BTS (comp), Auto Fault, Auto SOC [6]	≥Level 1	Force Open	
		05A PT Chg Ctrl	Multi-Stage, Charger Off, Start Float, Start Bulk, Start EQ	≥Level 1	Multi-Stage	
	05 PT Control [F]	05B PT Aux Relay	DISENGAGED, VDC, FAULT, ENGAGED, SOC[6]	≥Level 1	DISENGAGED	
		05C PT Alarm Ctrl	OFF, VDC, FAULT, ON	≥Level 1	OFF	
		05D PT MPPT Sweep	15 Min Sweep, 1 hour Sweep, Fixed Sweep	≥Level 1	15 Min Sweep	
	01 DC Meters	01A DC Volts to Inv	Read only display	≥Level 1	Read Only	
		01B Inv/Chg DC Amps 02A AC Output Volts	Read only display Read only display	≥Level 1	Read Only Read Only	
		02B AC Output Hz	Read only display	≥Level 4 [3] ≥Level 4	Read Only	
			AC Load (Read only display)	≥Level 4 ≥Level 4 [4]	Read Only	
		02C System AC Amps:	AC Input (Read only display)		Read Only	
	02.46.11.1	02D Inv/Chg Sys Amps	Read only display	≥Level 4 [4]	Read Only	
	02 AC Meters	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	Read only display	MSH Models only	Read Only	
		02I Input Volts AC2	Read only display	MSH-RE Models	Read Only	
		03A Charge Time	INV (Read only display)	≥Level 1	Read Only	
	03 Timers	oba charge Time	PT (Read only display) [F]	≥Level 1	Read Only	
	05 12000	03B Days Since:	Absorb/CV Done (Read only display)	≥Level 1	Read Only	
		,	EQ Chg Started (Read only display)	≥Level 1	Read Only	
		04A AGS Status	Read only display	≥Level 1	Read Only	
		04B DC Volts to AGS	Read only display	≥Level 1	Read Only	
	04 ACC Matana	04C Gen Run Time	Read only display	≥Level 1	Read Only	
	04 AGS Meters	04D AGS Sensor Temp 04E Since Run Days	Read only display Read only display	≥Level 1	Read Only Read Only	
		04F Since 100% Days	Read only display	≥Level 1 ≥Level 1	Read Only	
		04G Gen Hour Meter	Read only display (Press SELECT to reset)	≥Level 1	Read Only	
		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	
;	05 BMK Meters	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%	Read only display	≥Level 1 [6]	Read Only	
		06A ACLD Status	Read only display	≥Level 1	Read Only	
	06 ACLD Meters	06B Pwr Divert (KW)	Read only display	≥Level 1	Read Only	
	[F]	06C ACLD Temperature	Read only display	≥Level 1	Read Only	
		06D Target Volts	Read only display	≥Level 1	Read Only	
		06E ACLD-40 Version:	Read only display	≥Level 1	Read Only	
		07A PT Status	Read only display	≥Level 1	Read Only	
		07B Aux Relay Status:	Read only display PV Volts (Read only display)	≥Level 1	Read Only Read Only	
	PT Meters [F]	07C PT Volts	Bat Volts (Read only display)	≥Level 1 ≥Level 1	Read Only	
		07D Target Volts	Read only display	≥Level 1	Read Only	
			Amps: (Read only display)	≥Level 1	Read Only	
		07E To Battery Now Meters [F] 07F Power to Batt	Power: (Read only display)	≥Level 1	Read Only	
			Life: (Read only display)	≥Level 1	Read Only	
			Reset: (Read only display - Press SELECT to reset)	≥Level 1	Read Only	
		07G Ground Fault	Read only display	≥Level 1	Read Only	
		07H PT Data	Read only display (Press SELECT to see Log)	≥Level 1	Read Only	
		07I Clear PT Data History	Read only display (Press SELECT button)	≥Level 1	Read Only	
		07J PT-100 Version:	Read only display	≥Level 1	Read Only	
		07K PT Active	Read only display	≥Level 1	Read Only	

	01 System Setup	01A System Clock	Clock: 12:00AM-11:59PM	≥Level 1	12:00AM**	
		OIA System Clock	Date: MM/DD/YY [F]	≥Level 1	MM/DD/YY**	
		01D Carrier Cature	Contrast = 0-100%	≥Level 1	50%**	
		01B Screen Setup	Brightness = 0-100%	≥Level 1	50%**	
		016 Deven Cours	PowerSave [Min] OFF, 1-60 Minutes	≥Level 1	15 min	
		01C Power Save	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	
			Open Volts = 8.0-17.0*	≥Level 1	10.0V	
		01F ARTR Aux Relay	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	
			Open = 20-100%		50%	
		01G ARTR Relay SOC	Close = 20-100%	≥Level 4 [6]	100%	
		01H Max System Charge Amps [F]	Disabled, 20-2500 ADC	≥Level 3	Disabled	
		01I Days to remind when to EQ	OFF, 1-255 Days	≥Level 1	OFF	
		01J Link PT Charge Settings [F]	YES, NO	≥Level 1	YES	
		02A Search Watts Sensitivity	OFF, 5-50 watts (1 watt increments)	≥Level 1	5 Watts	
		02B LBCO Volts	9.0-12.2* VDC	≥Level 2	10.0 VDC	
			Connect = 12:00AM-11:45PM		6:00AM	
		02C AC In - Time	Disconnect = 12:00AM-11:45PM	≥Level 3 [1]	6:00PM	
			Connect = $9.0-15.9*$ (12V)		11.0	
		02D AC In - Volts DC	Disconnect = $9.1-16.0^{*}$ (12V)	≥Level 3 [1]	11.0	
	02 Invert Setup		Connect = 20-99%		80%	
	oz invert Secup	02E AC In - SOC	Disconnect = 20 35%	≥Level 3 [6]	100%	
		02F Inverter Always Power-Up When DC is Connected	NO, YES	≥Level 1	NO	
SETUP		02G Inverter Threshold to Start Parallel	OFF, 30-90%	MS-PAE & MS-PE only	60%	
ľ		024 AC Trant Ame	AC/AC1 Input= 5-60A	≥Level 1 [1]	30A	
		03A AC Input Amps	AC2 Input= 5-60A	MSH-RE Models	20A	
			AC/AC1 Input= 60-100 VAC, UPS Mode	US Models	80 VAC	
		03B Low VAC Dropout	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	
			Max Chg Rate = (0-100%)		100%	
			CV Chg Volts = (12.0-16.0V)*		13.8V	
			CV Chg Done= (Time, Amps, Hold VDC)	≥Level 4	Time	
			CV Chg Done Time= (0.1-25.5 Hrs)		2.0 Hrs	
l			CC/CV Max CC/CV Time= (OFF, 0.1-25.5Hrs)		12.0Hrs	
			DC Volts to ReCharge= (12.0-16.0V)*		12.0V	
	03 Charger Setup		CV Chg Done Amps= (0-250ADC)		20ADC	
l			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			
	os charger secup		Absorb Volts = (12.0-16.0V)*	4	14.4V	
l			Custom Float Volts = (12.0-16.0V)*	≥Level 3 [2]	13.2V	
l			EQ Volts = (12.0-16.0V)*		15.6V	
l			EQ Time = (0.1-25.5Hrs)		4.0 Hrs	
l		03D Absorb Done	Time, Amps, SOC [6]		Time	
l			Time= 0.1-25.5 Hrs	≥Level 4 [4]	2.0 Hrs	
l			Amps= 0-250 ADC		20 ADC	
			SOC= 50-100%		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 Silent DC Volte to Pohulk $= (12.0, 16.0)$	≥Level 4	12.01/	
			Silent DC Volts to Rebulk = (12.0-16.0V)*	≥Level 4	12.0V	
		03G Always Start Charge in Bulk [F]	Disabled, Enabled	≥Level 4	Disabled	

		04A Gen Run DC Volts	Start = OFF, 9.0-15.9*		11.5
			Stop = 9.1-16.0*, Float	≥Level 1	14.4
			Start Delay= 0-127 sec, 1-127 min	TEAL I	120 Sec
			Stop Delay= 0-127 sec, 1-127 min		120 Sec
			OFF, ON= Set Gen Run Time		OFF
		OAD Com Due Time	Start Daily = OFF, 12:00AM-11:45PM	N	OFF
		04B Gen Run Time	Stop Daily = 12:00AM-11:45PM	≥Level 1	12:00AM
			Stop Gen Time= 12:00AM-11:45PM	-	12:00AM
			Start AC Amps= OFF, 5-60A		OFF
			Stop AC Amps= 4-59A	≥Level 4	4A
		04C Gen Run AC Amps	Start Delay= 0-127secs, 1-127mins		120secs
			Stop Delay= 0-127secs, 1-127mins		120secs
			OFF, Start Gen SOC= 20-90%		OFF
		04D Gen Run SOC	Stop Gen SOC= 21-100%	≥Level 1 [6]	90%
	04 AGS Setup		Start Temp= OFF, Ext Input, 65-95F (18-35C)		OFF
		04E Gen Run Temp	65-95F (18-35C)→Run Time= 0.5-25.5 Hrs	≥Level 1	2.0Hrs
		04F Max Gen Run Time	OFF, 0.1-25.5 Hrs	≥Level 1	12.0 Hrs
			OFF, ON= Set Gen Quiet Time		OFF
			Begin Quiet= 12:00AM-11:45PM		12:00AM
		04G Gen Quiet Time	End Quiet= 12:00AM-11:45PM	≥Level 1	12:00AM
			Quiet Time Topoff= OFF, 30-120Min	-	OFF
			Start Gen Days = OFF, 1-255 days		OFF
		04H Gen Exercise	Start Gen Days = OFF, 1-255 days Start Time = 12:00A-11:45P	≥Level 1	8:00AM
		OTH GEH LXELCTSE		TEART T	
1			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	Start Gen Days = OFF, 1-255 days	≥Level 1 [6]	OFF
			Start Time = 12:00A-11:45P		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
SE	06 RC Setup	06A Remote Control	System, Port 1 - Port 6	≥Level 1	System
TUP		07A Battery Type - Linked	Read only display		Linked
			Gel, Flooded, AGM 1, AGM 2	≥Level 1	Flooded
(continued)			Max Chg Rate = (0-100%)		100%
1 t		07A Battery Type - Unlinked	CV Chg Volts = (12.0-16.0V)*		13.8V
l H			CV Chg Done= (Time, Amps, Hold VDC)		Time
le			CV Chg Done Time= (0.1-25.5 Hrs)		2.0 Hrs
e			Max $(C/CV \text{ Time} = (0\text{ EE} \ 0 \ 1-25 \ 5\text{Hrs})$		12.0Hrs
				≥Level 4	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	1	12.00
			Absorb Volts = (12.0-16.0V)*	-	14.4V
			Float Volts = (12.0-16.0V)*	≥Level 3 [2]	13.2V
	07 PT Setup [F]		Custom $\frac{F10at Volts = (12.0-16.0V)^{+}}{EQ Volts = (12.0-16.0V)^{*}}$		15.6V
			$EQ \ Volts = (12.0-16.0V)^{+}$ EQ Time = (0.1-25.5Hrs)		4.0 Hrs
			CV I IIIE = (0.1-20.0HL2)		4.0 nrs
		07B Absorb Done - Linked		≥Level 1	Linked
1		07B Absorb Done - unlinked	Time, Amps, SOC [6]		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%
1		07C Max Charge	Rate = 0-100%	≥Level 1	100%
1			Time = OFF, 0.1-25.5 Hrs	≥Level 1	12.0Hrs
1		07D Bulk Start 07E PT Relay VDC	Daily/SunUp = YES, NO	≥Level 1	YES
1			Low VDC = 9.0-16.0V	≥Level 1	10.0V
			SOC = OFF, 50-100%	≥Level 4 [6]	80%
			Engage VDC = 8.0-17.0*	≥Level 1	10.0V
			Diseng Volts = 8.0-17.0*	≥Level 1	14.0V
			Engage Delay = 0-127secs, 1-127mins	≥Level 1	10secs
			Diseng Delay = 0-127secs, 1-127mins	≥Level 1	10secs
		07G PT Alarm	ON Volts = 8.0-17.0*	≥Level 1	10.0V
			OFF Volts = 8.0-17.0*	≥Level 1	14.0V
			ON Delay = 0-127secs, 1-127mins	≥Level 1	10secs
			OFF Delay = 0-127secs, 1-127mins	≥Level 1	10secs
		07H PT Power Save Display	OFF, 1-60 min	≥Level 1	15 min

	01 Temperatures	01A INV 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	
		01D AGS Sensor Temp	Read only display	≥Level 1	Read Only	
		01E ACLD Temperature [F]	Read only display	≥Level 1	Read Only	
		01F PT Temps [F]	BTS, FETs, Inductor	≥Level 1	Read Only	
	02 Port Versions / ARTR Version		Read only display / ARTR=4.0	≥Level 1	Read Only	
	03 Acc Port Versions		Read only display	≥Level 1	Read Only	
ΤE	04 PT-100 Version: [F]		Read only display	≥Level 1	Read Only	
ECH	05 Fault History	INV Faults	Read only (press/rotate SELECT for history)	≥Level 1	Read Only	
		AGS Faults	Read only (press/rotate SELECT for history)	≥Level 1	Read Only	
		PT Faults [F]	Read only (press/rotate SELECT for history)	≥Level 1	Read Only	
		Clear All Faults	Press SELECT (x5 Secs) to clear fault history	≥Level 1	Read Only	
	06 SETUP PIN		Lock SETUP, Unlock SETUP, Change PIN (PIN= 0000)	≥Level 1	Set New PIN	
	07 Ext Control		Read only display	≥Level 1	Read Only	
	08 Show all Menus		YES, NO	≥Level 1	NO**	
	09 Load New Firmware [F]		Insert SD Card	≥Level 1		
	10 Load all Defaults		Press & hold SELECT knob to Load in 5.0 (secs)	≥Level 1		

 \ast 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 from RTR Version 3.1. ME-ARTR Compatibility Matrix Notes:

[1] Not available on MM/MM-E/MM-AE/MMS/MMS-E models.
[2] AC Couple Mode can be activated using Battery Type: Custom with MS-PAE Series ≥Rev 4.1 or MS/MS-PE Series ≥5.0.
[3] The AC meter displays are accurate only when used with MS-PAE, MS-PE or MSH Series inverters.
[4] 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, and level 3 inverter's Xev. 4.1 (and MVS 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).

[5] Requires 2Level 4 to display.
[6] 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.