

SPDM 2.40

added	persistent	register	group	mnemonic	name	datatype	bytes	repeats	size	extension	access	readable by	writable by	write access	description
	•	100	identification	idspdm	SPDMVersion	int	2	1	2		ro	ALL	-	-	Data model version (2.40 current)
	•	102	identification	idfwvs	firmwareVersion	int	2	1	2		ro	ALL	-	-	Firmware version number (2.40 current)
	•	104	identification	idonbr	salesOrderNumber	ascii	16	1	16		rw	ALL	DATABUS, IPAPI, WEBAPI	super	SP sales order number.
	•	120	identification	idpart	productId	ascii	16	1	16		rw	ALL	DATABUS, IPAPI, WEBAPI	super	SP product id.
	•	136	identification	idsnbr	serialNumber	ascii	16	1	16		rw	ALL	DATABUS, IPAPI, WEBAPI	super	SP serial number.
	•	152	identification	idchip	hardwareAddress	int	2	3	6		ro	ALL	-	-	Hardware serial number; cannot be changed. Can be used as backup unit address. Formatted as a 3-tuple of unsigned 16 bit integers separated by dashes: "int - int - int"
	•	158	identification	idaddr	unitAddress	int	2	1	2		rw	ALL	ALL	admin	User defined address; this will be used for addressing the unit.
124	•	160	identification	idfwbd	buildNumber	ascii	12	1	12		ro	ALL	-	-	Firmware build number; date of last release.
126	•	172	identification	idmaca	macAddress	int	6	1	6		rw	ALL	DATABUS, IPAPI, WEBAPI	super	MAC address as 6-tuple of bytes.
130	•	178	identification	idspdt	deviceType	int	1	1	1		rw	ALL	DATABUS, IPAPI, WEBAPI	super	Device category: 0 for PDU, 1 for DPM
	•	200	configuration	cfnrph	nrPhases	int	1	1	1		rw	ALL	DATABUS, IPAPI, WEBAPI	super	Either zero, one or three for no input metering, single or three phase system
	•	201	configuration	cfnrno	nrOutletsTotal	int	1	1	1		rw	ALL	DATABUS, IPAPI, WEBAPI	super	Total number of outlets, even hardwired ones without a switch/measure modules.
	•	202	configuration	cfnrso	nrSwitchedOutl	int	1	1	1		rw	ALL	DATABUS, IPAPI, WEBAPI	super	Number of switched outlets. If numbering of outlets used is non-contiguous: the highest outlet number is assumed as amount of switched outlets.
	•	203	configuration	cfnrmo	nrOutletsMeasurement	int	1	1	1		rw	ALL	DATABUS, IPAPI, WEBAPI	super	Number of measured outlets. If numbering of outlets used is non-contiguous: the highest outlet number is assumed as amount of measured outlets.
	•	204	configuration	cfamps	maximumLoad	int	1	1	1		rw	ALL	DATABUS, IPAPI, WEBAPI	super	Maximum rated load of device per phase, usually either 16, 32 or 64 A.
		206	configuration	cfnres	nrSensors	int	1	1	1		ro	ALL	-	-	Returns the number of detected environmental sensors on the sensor port.
		300	system_status	ssstat	deviceStatusCode	int	1	1	1		ro	ALL	-	-	Returns internal device status. 0 = OK 1 = alert flagged 16 = watchdog timer caused reset 32 = brownout detected 128 = slave module was reset
		301	system_status	ssttri	temperatureAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether temperature exceeded configured threshold and on which sensor it exceeded. 0 = no alert 1 = internal unit temperature 2 = external sensor
		302	system_status	ssitri	inputCurrentAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether input current load exceeded threshold and which input phase it affected. 0 = no alert 1-3 input phase

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		303	system_status	ssotri	outputCurrentAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether output current exceeded threshold. 0 = no alert 1-48 = outlet number
		304	system_status	ssvtri	inputVoltageAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether a voltage drop occurred on the input. 0 = no alert 1-3 input phase
		305	system_status	ssftri	oCurrentDropAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether a current drop occurred (to nearly 0A) on one of the outlets, indicating a possible blown fuse. 0 = no alert 1-48 = outlet number
		306	system_status	ssicda	iCurrentDropAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether current a current drop occurred (to nearly 0A) on one of the input phases. 0 = no alert 1-3 = input phase
126		307	system_status	sssnsa	sensorChangeAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether the sensor type changed 0 = no alert 1 = sensor type changed
240		308	system_status	ssovda	outletVoltageDropAlert	int	1	1	1		ro	ALL	-	-	Alert status on whether a voltage drop occurred on one of the outlets, indicating a possible blown fuse or otherwise failing outlet. 0 = no alert 1-48 = outlet number where the drop was first detected (not necessarily the first to fail)
		400	reset	rsboot	rebootDevice	int	1	1	1		wo	-	ALL	user	Writing '1' to this register will invoke a warm restart/reset of the device. Note that this will have no effect on outlet status!
		401	reset	rsalrt	resetAlerts	int	1	1	1		wo	-	ALL	user	Writing any non-zero integer to this register will reset all alerts.
		402	reset	rsimks	zeroInputKWhSubtotal	int	1	1	1		wo	-	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Writing any non-zero integer to this register will reset the input kWh subtotal counters to zero.
		403	reset	rsomks	zeroOutKWhSubtotal	int	1	27	27	*	wo	-	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Writing any non-zero integer to a channel of this register will reset the corresponding outlet's kWh subtotal counter to zero.
		430	reset	rspval	resetPeakValues	int	1	1	1		wo	-	ALL	user	Writing '1' to this register will reset all peak values to zero for both input/output metering, voltage drops, current and temperatures peaks.
130		431	reset	rsipks	zeroSingleInputKWhSubtotal	int	1	3	3		wo	-	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Writing any non-zero integer to one of the 3 channels will reset the kWh subtotal counter to zero for the responding phase input.
	•	1000	settings	stdvnm	deviceName	ascii	16	1	16		rw	ALL	ALL	admin	User configurable device name or identifier.
	•	1016	settings	stdvlc	deviceLocation	ascii	16	1	16		rw	ALL	ALL	admin	User configurable device location identifier.
	•	1032	settings	stuser	vanityTag	ascii	20	1	20		rw	ALL	ALL	admin	String to be displayed as vanity text on the display.
	•	1052	settings	stpkdr	peakDuration	int	2	1	2		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Denotes the duration of a peak before an alert will be triggered. Put differently, if a current peak lasts at least [stpkdr] milliseconds, then an alert is raised. Maximum time is roughly a minute.

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	•	1054	settings	strsal	localAlertReset	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Setting this register to '1' will allow a physical alert status reset by pressing both device buttons simultaneously. Without this set pressing both buttons at the same time will default the display to the "LOAD" tab.
240	•	1055	settings	stextn	extendedNames	int	1	1	1		rw	ALL	ALL	admin	Setting this register to '1' will enable the use of the 18 character registers for input, outlet and sensor names to display the name on the LCD, web interface and SNMP.
	•	1056	settings	stfodl	fixedOutletDelay	int	2	1	2		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Minimal delay between relay switch requests in milliseconds. Minimal delay is 100 ms and will therefore always be respected!
	•	1058	settings	stpsav	powerSaverMode	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS	user	Delay, in seconds, until backlight should deactivate; 0 keeps display always on. Note that keeping the backlight on for extended periods may decrease luminosity. Setting this to other values than 10, 60, 120 or 240 is incompatible with the gateway!
	•	1059	settings	stopom	outletPowerupMode	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Behaviour of outlet on power-up: 0 = off 1 = same state as at power down use default switch delay 2 = same state, but delayed by individual delay timer
	•	1060	settings	stmact	maximumTemperature	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	A temperature alert should be raised whenever the temperature is above this register's value. A value of zero means this setting is disabled. Applies to internal temperature unless an external sensor is connected. Value is in degrees celcius.
	•	1061	settings	stdiso	displayOrientation	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS	user	Orientation of the display's user interface. 0 = no display 1 = vertical, default orientation 2 = vertical, upside down 3 = horizontal, 90 degrees clockwise from default orientation 4 = horizontal, 90 degrees counter-clockwise from default orientation
	•	1062	settings	stimcm	maxInletAmps	fd	2	3	6		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Maximum current per input phase. If an input current value exceeds this value and lasts at least [stpkdr] milliseconds, then an alert will be triggered.
	•	1068	settings	stomcm	maxOutletAmps	fd	2	27	54	•	rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Maximum current per outlet. If an outlet current value exceeds this value and lasts at least [stpkdr] milliseconds, then an alert will be triggered.
	•	1122	settings	stomct	outputCTratio	int	1	27	27	•	rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	The multiplier to use in case /5 current transformers are used. Defaults to 1.
	•	1149	settings	stimct	inputCTratio	int	1	3	3		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	The multiplier to use in case /5 current transformers are used. Defaults to 1.
	•	1152	settings	stinmm	inputName	ascii	8	3	24		rw	ALL	ALL	admin	User configurable naming of the inputs or phases.
	•	1176	settings	stolnm	outletName	ascii	8	27	216	•	rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	User configurable naming of individual outlets.
	•	1392	settings	stiodl	indivOutletDelay	int	2	27	54	•	rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Delay before an individual outlet's relay switches on at power-up, in seconds.

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	•	1446	settings	stcddt	currentDropDetection	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Enables the current drop detection function. 0 = always off (default) 1 = input(s) only 2 = output(s) only 3 = both inputs and outputs
126	•	1447	settings	stnsa	sensorChangeAlertMode	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Enables the sensor channel change detection. 0 = off (default) 1 = on
132	•	1448	settings	stunlo	outletUnlock	int	1	1	1		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS	user	Overrides the timeout of [swounl]. If this is set to 1 then the timeout will be ignored, otherwise the timeout will be taken into account.
132	•	1449	settings	strebt	outletPowerCycle	int	1	27	27	•	rw	ALL	DATABUS, IPAPI, SNMP, MODBUS	user	Individual power cycle timer. This is the amount, in seconds, for each outlet (denoted by the channel) to wait until the relay should be switched on again.
240	•	1476	settings	starsa	autoResetAlerts	int	2	1	2		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	Set to '0' to disable automatic resetting of alerts. Any other value (up to 65535) enables the automatic resetting of alerts. The configured number is the number of seconds to wait before resetting the alerts. The timer starts after an alert condition disappears. If in the mean time a new alert occurs, the timer will restart counting.
	•	2000	switched_outlets	swocst	currentState	int	1	27	27	•	rw	ALL	DATABUS, IPAPI, SNMP, MODBUS	user	The state of the outlet relay(s). Note that reading a '1' does not necessarily mean it's enabled at that very moment but could also mean that the outlet's scheduled to be enabled. Writing is only effective after setting [swounl], or [stunlo].
		2027	switched_outlets	swosch	scheduled	int	1	27	27	•	ro	ALL	-	-	A '1' indicates pending activity. Together with [swocst], this can denote the actual current state of the outlet relay(s) and whether it's planned to be enabled or disabled.
126		2054	switched_outlets	sworeb	powerCycle	int	1	27	27	•	wo	-	DATABUS, IPAPI, SNMP, MODBUS	user	Writing '1' will cause the outlet to power cycle. Writing only effective if either [swounl] or [stunlo], and [swocst]'s value is set ([swounl] OR [stunlo]) AND [swocst].
		2081	switched_outlets	swounl	unlock	int	1	27	27	•	wo	-	DATABUS, IPAPI, SNMP, MODBUS	user	Writing '1' to this register will release the safety for this outlet for a couple seconds. Switching and rebooting are temporarily enabled.
	•	3000	input_measures	imkwht	kWhTotal	int	3	3	9		ro	ALL	-	-	Either the only phase in a single phase measurement; or one of the three phases in a multiphase measurement. This value is not resetable.
	•	3009	input_measures	imkwhs	kWhSubtotal	int	3	3	9		ro	ALL	-	-	kWh subtotal register of the only phase in a single phase measurement; or one of three phases in a multiphase measurement. Reset to zero with [rsimks].
		3018	input_measures	impfac	powerFactor	fd	2	3	6		ro	ALL	-	-	The effective power factor in percent.(not available in Delta wiring mode)
		3024	input_measures	imcrac	actualCurrent	fd	2	3	6		ro	ALL	-	-	Actual apparent, RMS current.
		3030	input_measures	imcrpk	peakCurrent	fd	2	3	6		ro	ALL	-	-	Peak apparent, RMS current; highest value since last reset of the peaks.
		3036	input_measures	imvoac	actualVoltage	fd	2	3	6		ro	ALL	-	-	The actual voltage.
		3042	input_measures	imvodp	minVoltage	fd	2	3	6		ro	ALL	-	-	RMS voltage dip; lowest value since reset of dips.

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		3048	input_measures	imkwhf	WhSubtotal fraction	int	4	3	12		ro	ALL	-	-	Fraction of kWh subtotal register, in microwatthour resolution, of the only phase in a single phase measurement; or one of three phases in a multiphase measurement. Reset to zero with [rsimks].
240	•	3060	input_measures	imname	extendedInputName	ascii	18	3	54		rw	ALL	ALL	admin	User configurable naming of the inputs or phases.
	•	4000	output_measures	omkwhT	kWhTotal	int	3	27	81	•	ro	ALL	-	-	Total kWh of selected output. This value is not resetable.
	•	4081	output_measures	omkwhs	kWhSubtotal	int	3	27	81	•	ro	ALL	-	-	kWh subtotal register of selected output. Reset to zero with [rsomks].
		4162	output_measures	ompfac	powerFactor	fd	2	27	54	•	ro	ALL	-	-	Power factor of output. (not available in Delta wiring mode)
		4216	output_measures	omcrac	actualCurrent	fd	2	27	54	•	ro	ALL	-	-	Actual apparent, RMS current.
		4270	output_measures	omcrpk	peakCurrent	fd	2	27	54	•	ro	ALL	-	-	Peak apparent, RMS current; highest value since last reset of peaks.
		4324	output_measures	omvoac	actualVoltage	fd	2	27	54	•	ro	ALL	-	-	Actual voltage on output. Note that these may differ with each other and input metering. This difference may amount to 2%.
		4378	output_measures	omuwhs	outletsμWhSubtotal	int	4	1	4		ro	ALL	-	-	Fraction of sum of SUBWATTHR registers of all outlets in microwatthour units
		5000	pdu_measures	pditem	pduIntTemperature	fd	2	1	2		ro	ALL	-	-	Actual internal device temperature in degrees celcius.
		5002	pdu_measures	pdetem	pduExtTemperature	fd	2	1	2		ro	ALL	-	-	Actual external device temperature in degrees celcius (read from a plugged-in sensor).
		5004	pdu_measures	pdinpk	pduIntPeak temp	fd	2	1	2		ro	ALL	-	-	Peak internal device temperature in degrees celcius since last peak reset.
		5006	pdu_measures	pdexpk	pduExtPeak temp	fd	2	1	2		ro	ALL	-	-	Peak external device temperature in degrees celcius since last peak reset.
		5008	pdu_measures	snstyp	sensorType	ascii	1	16	16		ro	ALL	-	-	Returns the detected sensor type, can be: T = temperature H = humidity I = dry switch input O = switch output R = residual current (mA) A = AC residual current (mA) D = DC residual current (mA) B = branch residual current (mA) S = error status Y = activity X = unused
		5024	pdu_measures	snsval	sensorValue	fd	2	16	32		ro	ALL	-	-	Returns the sensor value. When [snstyp] = 'T', it denotes temperature in degree Celsius When [snstyp] = 'H', it denotes humidity in percent When [snstyp] = 'I', it denotes switch state as 0 or 1 or bitmap for different transition patterns.
	•	5056	pdu_measures	snsnme	sensorName	ascii	6	16	96		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	User definable name for sensors.
240	•	5152	pdu_measures	snsenm	extendedSensorName	ascii	18	16	288		rw	ALL	DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	User definable name for sensors.

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240	•	6000	ext_outlet_names	exo1nm	extendedOutletName	ascii	18	27	486	•	rw		DATABUS, IPAPI, SNMP, MODBUS, DATABUS_INFRA	power	User configurable naming of individual outlets.
		9000	virtual	viwatt	virtualInputWatt	fd	2	3	6		ro	ALL	-	-	Input wattage (in kW), calculated by the device using current, voltage, and power factor measurements of a phase (phase is denoted by repeat/channel). Wattage = current * voltage * powerfactor / 100 / 1000
		9006	virtual	vivamp	virtualInputVA	fd	2	3	6		ro	ALL	-	-	Input VA (volt-amps, in kVA), calculated by the device using current and voltage measurements of a phase (phase is denoted by repeat/channel). VA = current * voltage / 1000
		9012	virtual	vowatt	virtualOutputWatt	fd	2	48	96		ro	ALL	-	-	Output wattage (in kW), calculated by the device using current, voltage, and power factor measurements of an outlet (outlet number is denoted by repeat/channel). Wattage = current * voltage * powerfactor / 100 / 1000
		9108	virtual	vovamp	virtualOutputVA	fd	2	48	96		ro	ALL	-	-	Output VA (volt-amps, in kVA), calculated by the device using current and voltage measurements of an outlet (outlet number is denoted by repeat/channel). VA = current * voltage / 1000
		10000	upload info	upvers	firmwareInfo	int	14	1	14		wo	-	DATABUS, IPAPI	-	Firmware upload info packet consisting of: [version][checksum][crc][numberOfBlocks][size] note that every '[', and ']' block must be in little-endian
			upload info		version	int	2	1	2						major and minor version number
			upload info		checksum	int	4	1	4						Plain checksum of all bytes in firmware upload file. Calculated by summing all bytes in unsigned long.
			upload info		crc	int	2	1	2						CRC of all bytes in firmware upload file. Calculated as defined by 'CRC16_ccitt_29B1'
			upload info		numberOfBlocks	int	2	1	2						Number of 256 byte blocks that were or will be sent
			upload info		size	int	4	1	4						file size of .bin file in bytes
		10100	upload data	upblnr	firmwareData	int	258	1	258		wo	-	DATABUS, IPAPI	-	Data block number plus the data block for fw upgrades: [dataBlockNumber][dataBlock] note that every '[', and ']' block must be in little-endian
			upload data		dataBlockNumber	int	2	1	2						the block number of the current block
			upload data		dataBlock	int	256	1	256						the current 256 byte binary block
130		40000	host	honruf	nrUnitsFound	int	2	1	2		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	Result of scan command, denotes the number of devices on the SPBUS network.
136		40002	host	horist	ringStatus	int	2	1	2		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	SPBUS network architecture configuration. 0 = open ring network 1 = closed ring network
136		40004	host	hobrin	ringBreakLocation	int	2	1	2		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	Device index of the ring break location. Can be used to determine between which devices the ring is broken.
130		40100	host	hoscbu	scanBus	int	2	1	2		wo	-	IPAPI, WEBAPI, SNMP, MODBUS	admin	Writing '1' to this register will invoke a scan.

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130		40104	host	hocmrn	renumAllFromN	int	2	1	2		wo	-	IPAPI, WEBAPI, SNMP, MODBUS	admin	Renumber devices on SPBUS network sequentially. Starts with the number written to this register on. Note that this overwrites all existing addresses! E.g.: writing '5' will renumber all devices on the SPBUS, giving them an iterating address number starting from address 5 (5, 6, 7, ...)
130		40106	host	hocmrz	renumAddrZeroC	int	2	1	2		wo	-	IPAPI, WEBAPI, SNMP, MODBUS	admin	Renumber all devices with address 0 in a sequential order.
130		40200	host	hounad	unitAddress	int	2	256	512		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	List of unit addresses known to the device. Register addressing: gateway modbus: list, increments by 1; 40200 is position 1; 40201 is position 2, etc. hPDU: increments by 2; 40200 is position 1, 40202 is position 2, etc.
130		40712	host	hohid1	hardwareID1	int	2	256	512		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	List of first elements of the 3-tuple hardware IDs known to the device, see [hounad] for register addressing.
130		41224	host	hohid2	hardwareID2	int	2	256	512		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	List of second elements of the 3-tuple hardware IDs known to the device, see [hounad] for register addressing.
130		41736	host	hohid3	hardwareID3	int	2	256	512		ro	IPAPI, WEBAPI, SNMP, MODBUS	-	-	List of third elements of the 3-tuple hardware IDs known to the device, see [hounad] for register addressing.
		31000	ethernet	etc1st	linkStatus	int	1	1	1		ro	WEBAPI	-	-	Link state flags register: Link error = 0x01 MII link busy = 0x02 Changed state = 0x04 Connected = 0x08 (if not set, it's not connected) 100Mbps mode = 0x10 (if not set then it's a 10mbps connection) Full-duplex mode = 0x20 (if not set, then it's a half-duplex connection)
		31001	ethernet	etcnst	networkStatus	int	1	1	1		ro	WEBAPI	-	-	Network state register: No cable = 0 DHCP acquiring = 1 DHCP bound = 2 Static = 3 DHCP static fallback = 4 Not configured = 5
		31002	ethernet	etcip4	currentIPv4	ipv4	4	1	4		ro	WEBAPI	-	-	Active IPv4 address
		31003	ethernet	etcnm4	currentNetmask	ipv4	4	1	4		ro	WEBAPI	-	-	Active netmask
		31004	ethernet	etcgw4	currentGateway	ipv4	4	1	4		ro	WEBAPI	-	-	Active default gateway
		31005	ethernet	etcdn1	currentDNS1	ipv4	4	1	4		ro	WEBAPI	-	-	Active primary DNS
		31006	ethernet	etcdn2	currentDNS2	ipv4	4	1	4		ro	WEBAPI	-	-	Active secondary DNS
		31007	ethernet	etchnm	currentHostname	ascii	64	1	64		ro	WEBAPI	-	-	Active device hostname
		31020	ethernet	etdhen	dhcp	int	1	1	1		rw	WEBAPI	WEBAPI	power	DHCP enable. non-zero integer = enabled 0 = disabled
		31021	ethernet	etdhfb	dhcpFallbackEnable	int	1	1	1		rw	WEBAPI	WEBAPI	power	DHCP fallback enable bit, allows the device to fallback to a static address. non-zero integer = enabled 0 = disabled
		31022	ethernet	etdhfd	dhcpFallbackDelay	int	1	1	1		rw	WEBAPI	WEBAPI	power	How long to wait (in seconds) for DHCP to work until it is assumed it won't and fallback to a static address.

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		31024	ethernet	etsip4	ipv4Address	ipv4	4	1	4		rw	WEBAPI	WEBAPI	power	Static IPv4 address. Used as either the fallback or the static IPv4 address.
		31025	ethernet	etsnm4	ipv4SubnetMask	ipv4	4	1	4		rw	WEBAPI	WEBAPI	power	Static netmask. Used as either the fallback or the static netmask.
		31026	ethernet	etsgw4	ipv4Gateway	ipv4	4	1	4		rw	WEBAPI	WEBAPI	power	Static gateway. Used either the fallback or the static gateway.
		31029	ethernet	etshnm	hostname	ascii	64	1	64		rw	WEBAPI	WEBAPI	power	Static hostname. Used for either the fallback or as the static hostname.
		31030	ethernet	etaips	ipv4AcceptedIps	ipv4	4	3	12		rw	WEBAPI	WEBAPI	power	3 IP addresses that are allowed to connect to the device.
		31033	ethernet	etaipm	ipv4AcceptedIpsPrefix	int	1	3	3		rw	WEBAPI	WEBAPI	power	Denotes the accepted IP's subnet mask (using CIDR notation).
		31036	ethernet	ethmod	hPDUmode	int	4	1	4		rw	WEBAPI	WEBAPI	admin	hPDU mode flag register: HPDUMODE_CLASSIC = 0x00 HPDUMODE_HYBRID = 0x05 HPDUMODE_BRIDGE = 0x07 HPDUMODE_COLO_INFRA = 0x0D HPDUMODE_COLO_ENDUSER = 0x15 HPDU_TWIN_MASTER = 0x27
		31100	ipapi	iaenab	ipapiEnable	int	1	1	1		rw	WEBAPI	WEBAPI	power	IPAPI enable. 1 = enabled 0 = disabled
		31101	ipapi	iarc4k	ipapiARC4key	ascii	16	1	16		rw	WEBAPI	WEBAPI	power	ARC4 key used in the IPAPI exchange.
		31300	http	hthpen	httpInterfaceEnable	int	1	1	1		rw	WEBAPI	WEBAPI	power	HTTP webinterface enable. 1 = enabled 0 = disabled
		31301	http	hthsen	httpsInterfaceEnable	int	1	1	1		rw	WEBAPI	WEBAPI	power	HTTPS webinterface enable. 1 = enabled 0 = disabled
		31302	http	hthppo	httpInterfacePort	int	2	1	2		rw	WEBAPI	WEBAPI	power	Port used for HTTP webinterface
		31303	http	hthspo	httpsInterfacePort	int	2	1	2		rw	WEBAPI	WEBAPI	power	Port used for HTTPS webinterface
		31600	snmp	snmpv1	v1Andv2Enable	int	1	1	1		rw	WEBAPI	WEBAPI	power	Snmp v1 and v2 enable. 1 = enabled 0 = disabled
		31602	snmp	sntrap	trapEnable	int	1	1	1		rw	WEBAPI	WEBAPI	power	Snmp trap enable. 1 = enabled 0 = disabled
		31603	snmp	sndst1	trapDestination1	ascii	64	1	64		rw	WEBAPI	WEBAPI	power	Destination 1 for trap messages. Can be either a hostname or IP address.
		31604	snmp	sndst2	trapDestination2	ascii	64	1	64		rw	WEBAPI	WEBAPI	power	Destination 2 for trap messages. Can be either a hostname or IP address.
		31605	snmp	snmpro	snmpReadOnly	int	1	1	1		rw	WEBAPI	WEBAPI	power	Snmp behavior enable. 2 = Read-only with scan 1 = Read-only 0 = disabled
		31606	snmp	snmplp	snmpListenPort	int	2	1	2		rw	WEBAPI	WEBAPI	power	Port on which snmp listens
		31607	snmp	snmotp	snmpTrapPort	int	2	1	2		rw	WEBAPI	WEBAPI	power	Port to which trap sends trap
		31608	snmp	sncmpb	readCommunity	ascii	16	1	16		rw	WEBAPI	WEBAPI	power	Snmp read community string
		31609	snmp	sncmpr	writeCommunity	ascii	16	1	16		rw	WEBAPI	WEBAPI	power	Snmp write community string
		31610	snmp	sncmtr	trapCommunity	ascii	16	1	16		rw	WEBAPI	WEBAPI	power	Trap community string
		31612	snmp	snisdn	deviceName	ascii	64	1	64		rw	WEBAPI	WEBAPI	power	Device name

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added	persistent	register	group	mnemonic	name	datatype	bytes	repeats	size	extension	access	readable by	writable by	write access	description
		31613	snmp	snisd1	deviceLocation	ascii	64	1	64		rw	WEBAPI	WEBAPI	power	Device location
		31614	snmp	snisd2	deviceContact	ascii	64	1	64		rw	WEBAPI	WEBAPI	power	Device contact
		31615	snmp	sntrds	trapDeviceStatusCode	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send device status code traps
		31616	snmp	sntrta	trapTempAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send temperature alert traps
		31617	snmp	sntric	trapInputCurrentAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send input current alert traps
		31618	snmp	sntrac	trapOutputCurrentAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send output current alert traps
		31619	snmp	sntriv	trapInputVoltageAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send input voltage alert traps
		31620	snmp	sntror	trapOutputCurrentDropAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send output current drop alert traps
		31621	snmp	sntrid	trapInputCurrentDropAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send input current drop alert traps
		31622	snmp	sntraf	trapSnmpAuthFailure	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send snmp authentication traps
		31623	snmp	sntrnc	trapNetworkConnectivity	int	1	1	1		rw	WEBAPI	WEBAPI	power	Signifies network connectivity. Will send coldstart trap if set
		31624	snmp	sntrsc	trapSensorChangeAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send sensor change alert traps
		31625	snmp	sntrrc	trapRingStateChanged	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send ring state change traps
		31626	snmp	sntror	trapOutletVoltageDropAlert	int	1	1	1		rw	WEBAPI	WEBAPI	power	If set, the device will send outlet voltage drop alert traps
		31700	users	usname	usersUsername	ascii	16	5	80		rw	WEBAPI	WEBAPI	-	Webapi username
		31710	users	uspasswd	usersPassword	ascii	16	5	80		wo	-	WEBAPI	-	Webapi password
		31740	users	usacrd	usersRead	int	4	5	20		rw	ALL	WEBAPI	admin	Defines the read access permissions of a userid where the userid level is denoted by channel
		31750	users	usacwr	usersWrite	int	4	5	20		rw	ALL	WEBAPI	admin	Defines the write access permissions of a userid where the userid level is denoted by channel
		32000	modbus	mbtce	modbusEnable	int	1	1	1		rw	WEBAPI	WEBAPI	power	Modbus enable. 1 = enabled 0 = disabled
		32001	modbus	mbtcr	modbusReadOnly	int	1	1	1		rw	WEBAPI	WEBAPI	power	If this is set to '1', then modbus is in read-only mode.
		32002	modbus	mbtcpo	modbusPort	int	2	1	2		rw	WEBAPI	WEBAPI	power	Port used for modbus communication