

group	register	mnemonic	name	access	datatype	registers	repeats	description
identification	100	idspdm	SPDMVersion	ro	int16	1	1	Data model version (1.24 current). A register and its channels can have one or more extensions accessible via a new read and write command in the api (2 and 17) or adding 10.000 for Modbus. Outlets now have one extra set of registers, identical to the originals, but the channels are 28..48 instead of
identification	102	idfwvs	firmwareVersion	ro	int16	1	1	The units firmware revision number (1.46 at the time of writing)
identification	104	idonbr	salesOrderNumber	rw	char	8	1	SP sales order number.
identification	120	idpart	productId	rw	char	8	1	SP product id.
identification	136	idsnbr	serialNumber	rw	char	8	1	SP serial number.
identification	152	idchip	hardwareAddress	ro	int16	1	3	Hardware serial number; cannot be changed. Can be used as backup unit address. format as 3 unsigned ints separated by dashes: "int - int - int"
identification	158	idaddr	unitAddress	rw	int16	1	1	User defined address; this will be used for addressing the unit.
configuration	200	cfnrph	n.o.Phases	rw	int8	1	1	Either zero, one or three for no input metering, single or three phase system
configuration	201	cfnrno	n.o.OutletsTotal	rw	int8	1	1	Total number of outlets, even hardwired without switch/measure modules.
configuration	202	cfnrso	n.o.SwitchedOutl	rw	int8	1	1	Number of switched outlets. If outlet numbering is non-contiguous: the highest outlet number.
configuration	203	cfnrmo	n.o.OutletsMeas.	rw	int8	1	1	Number of measured outlets. If outlet numbering is non-contiguous: the highest outlet number.
configuration	204	cfamps	maximumLoad	rw	int8	1	1	Maximum rated load of device per phase, usually either 16, 32 or 64 A.
configuration	205	cfnrte	n.o.Temp.Sensors	rw	int8	1	1	The configuration of the sensor port: 0 for none, 1 for digital only. 2 for analog (int and ext). The actual number of digital sensor is returned by cfnres.
configuration	206	cfnres	n.o.Env.Sensors	ro	int8	1	1	Returns the number of detected environmental sensors on the sensor port.
system_status	300	ssstat	deviceStatusCode	ro	int8	1	1	Returns an internal status or error code. 0 = OK, 1 = alert flagged, 16 = watchdog timer caused reset, 32 = brownout detected, 128 = slave module was reset
system_status	301	ssetri	temperatureAlert	ro	int8	1	1	An alert has been raised due to temperature exceeding threshold; 0= no alert; 1= internal unit temp, 2= external sensor.
system_status	302	ssetri	inputCurrentAlert	ro	int8	1	1	An alert has been raised due to current exceeding threshold; 0=no alert; 1-3 for input phase.
system_status	303	ssotri	outputCurrentAlert	ro	int8	1	1	An alert has been raised due to current exceeding threshold; 0=no alert; 1-48 for outlet.
system_status	304	ssvtri	inputVoltageAlert	ro	int8	1	1	An alert has been raised due to a voltage dip; 0=no alert; 1-3 for input phase.
system_status	305	ssftri	oCurrentDropAlert	ro	int8	1	1	An alert has been raised due to the current of a measured outlet suddenly dropping to near zero, possibly indicating a blown fuse; 0=no alert; 1-48 for outlet.

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system_status	306	ss icda	iCurrentDropAlert	ro	int8	1	1	An alert has been raised due to the current of a measured input suddenly dropping to near zero, possibly indicating a blown fuse; 0=no alert; 1-3 for phase.
settings	1000	stdvnm	deviceName	rw	char	8	1	User configurable device name or identifier.
settings	1016	stdvlc	deviceLocation	rw	char	8	1	User configurable device location identifier.
settings	1032	stuser	vanityTag	rw	char	10	1	Characters to be displayed as vanity tekst in display.
settings	1052	stpkdr	peakDuration	rw	int16	1	1	A current peak should last at least [stpkdr] milliseconds before an alert is raised; max about a minute.
settings	1054	strsal	localAlertReset	rw	int8	1	1	Allow alerts to be reset locally on pdu by pushing one of the buttons.
settings	1056	stfodl	fixedOutletDelay	rw	int16	1	1	Minimal delay between two successive relay switches in milliseconds. Minimal delay is 100 ms. Will always be respected!
settings	1058	stpsav	powerSaverMode	rw	int8	1	1	Set backlight on time in seconds; 0 keeps display always on. Note that keeping the backlight on may decrease luminosity over time. Setting this to other values than 10, 60, 120 or 240 is incompatible with the gateway!
settings	1059	stopom	outletPowerupMode	rw	int8	1	1	Behaviour of outlet on power-up: 0=off; 1=same state as at power down; 2=same state, but delayed by individual delay timer.
settings	1060	stmaxt	maximumTemperature	rw	int8	1	1	An alert should be generated whenever the temperature is above this value. Zero means disabled. Applies to internal temperature if no external sensor connected; otherwise only to external sensor.
settings	1061	stdiso	displayOrientation	rw	int8	1	1	0 no display; display off; 1 vertical, display on top; 2 vertical, upside down; 3 horizontal, display at left; 4 horizontal, display at right
settings	1062	stimcm	maxInletAmps	rw	float32	2	3	Maximum current per input phase in A; should last at least [stpkdr] milliseconds before triggering an alert.
settings	1068	stomcm	maxOutletAmps	rw	float32	2	27	Maximum current per outlet in A; should last at least [stpkdr] milliseconds before triggering an alert.
settings	1122	stomct	outputCTratio	rw	int8	1	27	The multiplier to use in case of use of /5 current transformers. Defaults to 1.
settings	1149	stimct	inputCTratio	rw	int8	1	3	The multiplier to use in case of use of /5 current transformers. Defaults to 1.
settings	1152	stinm	inputName	rw	int8	1	3	User configurable naming of the inputs or phases. Useful if channels are used to measure branches.
settings	1176	stolnm	outletName	rw	char	4	27	User configurable naming of individual outlets. Useful to distinguish outlets based on customer or device name.
settings	1392	stiodl	indiv.OutletDelay	rw	int16	1	27	Delay before an individual outlet switches on at power-up in seconds.
settings	1446	stcddt	currentDropDetection	rw	int8	1	1	Enables the current drop detection function. 0 = always off (default), 1 = input(s) only, 2 = output(s) only, 3 = both inputs and outputs.
switched_outlets	2000	swocst	currentState	rw	int8	1	27	The actual state of the outlet relays. Writing is only effective after setting [swounl].
switched_outlets	2027	swosch	scheduled	ro	int8	1	27	A one indicates pending activity; the switch delay has not yet expired.

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input_measures	3000	imkwh t	kWhTotal	ro	int32	2	3	Either the only phase in a single phase measurement; or one of the three phases in a multiphase measurement.
input_measures	3009	imkwh s	kWhSubtotal	ro	int32	2	3	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].
input_measures	3018	impfac	powerFactor	ro	float32	2	3	The effective power factor in percent.
input_measures	3024	imcrac	actualCurrent	ro	float32	2	3	Actual apparent, RMS current.
input_measures	3030	imcrpk	peakCurrent	ro	float32	2	3	Peak apparent, RMS current; highest value since last reset of the peaks.
input_measures	3036	imvoac	actualVoltage	ro	float32	2	3	The actual voltage.
input_measures	3042	imvodp	minVoltage	ro	float32	2	3	RMS voltage dip; lowest value since reset of dips.
output_measures	4000	omkwh t	kWhTotal	ro	int32	2	27	Total kWh of selected output.
output_measures	4081	omkwh s	kWhSubtotal	ro	int32	2	27	kWh subtotal register of selected output. Reset to zero with [rsomks].
output_measures	4162	ompfac	powerFactor	ro	float32	2	27	Power factor of output.
output_measures	4216	omcrac	actualCurrent	ro	float32	2	27	Actual apparent, RMS current.
output_measures	4270	omcrpk	peakCurrent	ro	float32	2	27	Peak apparent, RMS current; highest value since last reset of peaks.
output_measures	4324	omvoac	actualVoltage	ro	float32	2	27	Actual voltage on output. Note that these may differ with each other and input metering. This difference may amount to 2%.
pdu_measures	5000	pditem	pduIntTemperature	ro	float32	2	1	Actual internal pdu temperature in deg C
pdu_measures	5002	pdetem	pduExtTemperature	ro	float32	2	1	Actual external pdu temperature sensor in deg C.
pdu_measures	5004	pdinpk	pduIntPeak temp	ro	float32	2	1	Peak internal pdu temperature in deg C since last reset of peaks.
pdu_measures	5006	pdexpk	pduExtPeak temp	ro	float32	2	1	Peak external pdu temperature in deg C since last reset of peaks.
pdu_measures	5008	sns typ	sensorType	ro	char	1	16	Returns the detected sensor type, can be T: temperature, H: Humidity, I: dry switch input, O: switch output.
pdu_measures	5024	snsval	sensorValue	rw	float32	2	16	Returns the sensor value, can be for T: temperature in degree Celsius, for H: Humidity in percent, I: switch state as 0 or 1 or bitmap for different transition patterns.
pdu_measures	5056	snsnme	sensorName	rw	char	4	16	User definable name for sensors.
virtual	9000	viwatt	virtualInputWatt	ro	float32	2	3	value calculated by gateway or dcs
virtual	9006	vivamp	virtualInputVA	ro	float32	2	3	value calculated by gateway or dcs
virtual	9012	vowatt	virtualOutputWatt	ro	float32	2	48	value calculated by gateway or dcs
virtual	9108	vovamp	virtualOutputVA	ro	float32	2	48	value calculated by gateway or dcs