

MODBUS\_VAMP51\_v10\_27

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Device name          OVERCURRENT &
EARTHFAULT RELAY
Device type         VAMP 51
Application mode    Feeder
Program version     V10.27
    
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VS\_MBSlave\_402001:

Read-only items 401991->:

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Name          Access  Scaling
Setting for scaling Address
-----
Reread event      R -    1 = 1      -
    401991...401995
Events           R -    1 = 1      -
    401996...402000
Alive indicator   R -    1 = 1      -
    402001
DI               R -    1 = 1      -
    402007
DI's after DI16 for ModBus R -    1 = 1      -
    402008
Phase current IL1 R -    1 A = 1    -
    402009
Phase current IL2 R -    1 A = 1    -
    402010
Phase current IL3 R -    1 A = 1    -
    402011
Io1 residual current R -    1.00 A = 100 -
    402012
Frequency        R -    50.000 Hz = 5000
Frequency scaling 402021
Phase current IL  R -    1 A = 1    -
    402039
Obj1 state       R -    Open=0,Close=1,Undef=2 -
    402042
Obj2 state       R -    Open=0,Close=1,Undef=2 -
    402043
Obj3 state       R -    Open=0,Close=1,Undef=2 -
    402044
Obj4 state       R -    Open=0,Close=1,Undef=2 -
    402045
Obj5 state       R -    Open=0,Close=1,Undef=2 -
    402046
Obj6 state       R -    Open=0,Close=1,Undef=2 -
    402047
    
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MODBUS\_VAMP51\_v10\_27

Remote/Local State	R W	REMOTE=0, LOCAL=1	-
402048			
Output relays	R -	1 = 1	-
402049			
Obj7 state	R -	Open=0, Close=1, Undef=2	-
402050			
Obj8 state	R -	Open=0, Close=1, Undef=2	-
402051			
Run hours/10^0 to ModBus	R -	1 = 1	-
402057			
Run hours/10^4 to ModBus	R -	1 = 1	-
402058			
Engine running seconds	R W	1 s = 1	-
402059			
Start counter	R W	1 = 1	-
402060			
Events	R -	1 = 1	-
402101...402105			
Last fault current	R W	1.00 xIn = 100	-
402110			
Fault current	R -	1.00 xIn = 100	-
402111			
Fault current	R -	1.00 xIn = 100	-
402112			
Fault current	R -	1.00 xIn = 100	-
402113			
Alarm L1..L3	R -	1 = 1	-
402121			
Fault L1..L3	R -	1 = 1	-
402122			
Diagnostic register 1	R -	1 = 1	-
402191			
Diagnostic register 2	R -	1 = 1	-
402192			
Diagnostic register 3	R -	1 = 1	-
402193			
Diagnostic register 4	R -	1 = 1	-
402194			
HARMONICS of IL1	R -	1 % = 1	-
402201...402216			
HARMONICS of IL2	R -	1 % = 1	-
402221...402236			
HARMONICS of IL3	R -	1 % = 1	-
402241...402256			
Reread event	R -	1 = 1	-
402490...402494			

Write items 402501->:

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Name	Access	Scaling
Setting for scaling	Address	

MODBUS\_VAMP51\_v10\_27

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Release latches                R W    Release=1    -
    402501
Synchronize minutes            R W    1 = 1            -
    402502
Grp. 2 remote scaling          R W    1 % = 1          -
    402503
Set RTC                          - W    1 = 1            -
    402504...402507
Open select Obj1                R W    1 = 1            -
    402508
Close select Obj1               R W    1 = 1            -
    402509
Execute operation Obj1          - W    1 = 1            -
    402510
Max ctrl pulse length of Obj1  R W    1.00 s = 100  -
    402511
Open select Obj2                R W    1 = 1            -
    402512
Close select Obj2               R W    1 = 1            -
    402513
Execute operation Obj2          - W    1 = 1            -
    402514
Max ctrl pulse length of Obj2  R W    1.00 s = 100  -
    402515
Cancel selected operation       - W    1 = 1            -
    402516
Open select Obj3                R W    1 = 1            -
    402517
Close select Obj3               R W    1 = 1            -
    402518
Execute operation Obj3          - W    1 = 1            -
    402519
Max ctrl pulse length of Obj3  R W    1.00 s = 100  -
    402520
Open select Obj4                R W    1 = 1            -
    402521
Close select Obj4               R W    1 = 1            -
    402522
Execute operation Obj4          - W    1 = 1            -
    402523
Max ctrl pulse length of Obj4  R W    1.00 s = 100  -
    402524
Ambient temperature            R W    1 °C = 1      -
    402525
SetGrp common change           R W    1=0,2=1        -
    402526
Open select Obj5                R W    1 = 1            -
    402527
Close select Obj5               R W    1 = 1            -
    402528
Execute operation Obj5          - W    1 = 1            -
    402529

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MODBUS\_VAMP51\_v10\_27

Max ctrl pulse length of Obj5	R W	1.00 s = 100	-
402530			
Open select Obj6	R W	1 = 1	-
402531			
Close select Obj6	R W	1 = 1	-
402532			
Execute operation Obj6	- W	1 = 1	-
402533			
Max ctrl pulse length of Obj6	R W	1.00 s = 100	-
402534			
Reset diagnostics	R W	RESET=1	-
402535			
Clear min & max	R W	Clear=1	-
402536			

VS\_MBSlave\_403001:

MODBUS SLAVE: 403001->:

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Name	Access	Scaling	
Setting for scaling Address			
-----			
Pos. sequence I1	R -	1 A = 1	-
403001			
Neg. sequence I2	R -	1 A = 1	-
403002			
Current -seq./+seq.	R -	1.0 % = 10	-
403003			
Current phase seq.	R -	??=0,OK=1,Reverse=2	-
403004			
Phase current THD	R -	1.0 % = 10	-
403005			
IL1 THD	R -	1.0 % = 10	-
403006			
IL2 THD	R -	1.0 % = 10	-
403007			
IL3 THD	R -	1.0 % = 10	-
403008			
Phase current IL	R -	1 A = 1	-
403009			
Min. of IL1 IL2 IL3	R -	1 A = 1	-
403010			
Max. of IL1 IL2 IL3	R -	1 A = 1	-
403011			
Phase current ILRMS	R -	1 Arms = 1	-
403012			
Phase current IL1RMS	R -	1 Arms = 1	-
403015			

MODBUS\_VAMP51\_v10\_27

Phase current IL2RMS 403016	R -	1 Arms = 1	-
Phase current IL3RMS 403017	R -	1 Arms = 1	-
Temperature rise 403018	R W	1.0 % = 10	-
Ambient temperature 403019	R W	1 °C = 1	-
IL1da demand 403020	R -	1 A = 1	-
IL2da demand 403021	R -	1 A = 1	-
IL3da demand 403022	R -	1 A = 1	-
IoCalc demand 403023	R -	1.00 pu = 100	-
Io1 demand 403024	R -	1.000 pu = 1000	-

VS\_MBSlave\_403301:

MODBUS SLAVE: 403301->:

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Name	Access	Scaling	
Setting for scaling Address			
DI1 counter 403301	R W	1 = 1	-
DI2 counter 403302	R W	1 = 1	-
Shot1 start counter 403331	R C	1 = 1	-
Shot2 start counter 403332	R C	1 = 1	-
Shot3 start counter 403333	R C	1 = 1	-
Shot4 start counter 403334	R C	1 = 1	-
Shot5 start counter 403335	R C	1 = 1	-
AR start counter 403336	R C	1 = 1	-
AR fail counter 403337	R C	1 = 1	-
AR shot number 403402	R -	1,2,3,4,5,END=6	-
Critical AR req. 403403	R -	1 = 1	-

MODBUS\_VAMP51\_v10\_27

Reclose locked	403404	R -	1 = 1	-
Reclose running	403405	R -	1 = 1	-
Final trip	403406	R -	1 = 1	-
Autoreclose on	403407	R -	1 = 1	-
Timer 1 status	403415	R W	0=1,1=2	-
Timer 2 status	403416	R W	0=1,1=2	-
Timer 3 status	403417	R W	0=1,1=2	-
Timer 4 status	403418	R W	0=1,1=2	-
Logic output states 1...10	403419	R -	1 = 1	-
CBWAlarm 1	403420	R -	1 = 1	-
CBWAlarm 2	403421	R -	1 = 1	-
Logic output states 9...16	403422	R -	1 = 1	-
Logic output states 17...20	403423	R -	1 = 1	-
Virtual outputs	403426	R -	1 = 1	-
Virtual input 1	403427	R W	0,1	-
Virtual input 2	403428	R W	0,1	-
Virtual input 3	403429	R W	0,1	-
Virtual input 4	403430	R W	0,1	-
Logic Cntr1	403451	R -	1 = 1	-
Logic Cntr2	403452	R -	1 = 1	-
Logic Cntr3	403453	R -	1 = 1	-
Logic Cntr4	403454	R -	1 = 1	-
Logic Cntr5	403455	R -	1 = 1	-
Logic Cntr6	403456	R -	1 = 1	-

VS\_MBSlave\_404001:

MODBUS SLAVE: 404001->:

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MODBUS\_VAMP51\_v10\_27

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Name Access Scaling Setting  
for scaling Address

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Minimum frequency 404001	R W	50.000 Hz = 50000	-
Minimum of Io 404006	R W	1.0 % = 10	-
Minimum of Io2 404007	R W	1.0 % = 10	-
Minimum of IL1 404015	R W	1 A = 1	-
Minimum of IL2 404016	R W	1 A = 1	-
Minimum of IL3 404017	R W	1 A = 1	-
RMS minimum of IL1 404018	R W	1 Arms = 1	-
RMS minimum of IL2 404019	R W	1 Arms = 1	-
RMS minimum of IL3 404020	R W	1 Arms = 1	-
Minimum of IL1 404021	R W	1 A = 1	-
Minimum of IL2 404022	R W	1 A = 1	-
Minimum of IL3 404023	R W	1 A = 1	-
RMS minimum of IL1 404024	R W	1 Arms = 1	-
RMS minimum of IL2 404025	R W	1 Arms = 1	-
RMS minimum of IL3 404026	R W	1 Arms = 1	-
Maximum frequency 404101	R W	50.000 Hz = 50000	-
Maximum of Io 404106	R W	1.0 % = 10	-
Maximum of Io2 404107	R W	1.0 % = 10	-
Maximum of IL1 404115	R W	1 A = 1	-
Maximum of IL2 404116	R W	1 A = 1	-
Maximum of IL3 404117	R W	1 A = 1	-
RMS maximum of IL1 404118	R W	1 Arms = 1	-
RMS maximum of IL2 404119	R W	1 Arms = 1	-
RMS maximum of IL3	R W	1 Arms = 1	-

MODBUS\_VAMP51\_v10\_27

404120					
Maximum of IL1	R	W	1	A = 1	-
404121					
Maximum of IL2	R	W	1	A = 1	-
404122					
Maximum of IL3	R	W	1	A = 1	-
404123					
RMS maximum of IL1	R	W	1	Arms = 1	-
404124					
RMS maximum of IL2	R	W	1	Arms = 1	-
404125					
RMS maximum of IL3	R	W	1	Arms = 1	-
404126					