

Remote power control interface registers (bluelog Neo)

Version 2.1

WRITE AND READ VALUES

Data type: Little-Endian, byte swapped

For each setpoint, two registers must be written: one for activation (0/1) and one for the setpoint value.

If the setpoint value register is written while the activation register remains set to 0, the setpoint will not be processed.

Register	Abbreviation	Description	Unit	Data type	Range	Comment
GRID CONNECTION POINT (GCP)						
10000	PPC_RPC_GCP_P_SET_REL_ACT	Activation "Active power setpoint at GCP (energy trader, relative)"	-		0 = off, 1 = on	
10002	PPC_RPC_GCP_P_SET_REL	Active power setpoint at GCP (energy trader, relative)	%		-125 ... 125 %	
10004	PPC_RPC_GCP_P_SET_ABS_ACT	Activation "Active power setpoint at GCP (energy trader, absolute)"	-		0 = off, 1 = on	
10006	PPC_RPC_GCP_P_SET_ABS	Active power setpoint at GCP (energy trader, absolute)	W		unlimited	
10008-1098		Reserved				
PV						
10100	PPC_RPC_PV_P_SET_REL_ACT	Activation "Active power setpoint PV (energy trader, relative)"	-		0 = off, 1 = on	
10102	PPC_RPC_PV_P_SET_REL	Active power setpoint PV (energy trader, relative)	%		0 ... 125 %	
10104	PPC_RPC_PV_P_SET_ABS_ACT	Activation "Active power setpoint PV (energy trader, absolute)"	-		0 = off, 1 = on	
10106	PPC_RPC_PV_P_SET_ABS	Active power setpoint PV (energy trader, absolute)	W		unlimited	
10108	PPC_RPC_PV_FSM_ACT	Activation FSM for PV	-		0 = off, 1 = on	
10110	PPC_RPC_PV_FSM_P_RANGE	FSM active power range for PV	%		0....125%	Applicable if FSM curve is configured as symmetrical.
10112	PPC_RPC_PV_FSM_P_RANGE_U	FSM active power range - underfrequency for PV	%		0....125%	Applicable if FSM curve is configured as asymmetrical.
10114	PPC_RPC_PV_FSM_P_RANGE_O	FSM active power range - overfrequency for PV	%		0....125%	Applicable if FSM curve is configured as asymmetrical.
10116	PPC_RPC_PV_FSM_DROOP	FSM droop for PV	%		0.001 ...100%	Applicable if FSM curve is configured as symmetrical.
10118	PPC_RPC_PV_FSM_DROOP_U	FSM droop - underfrequency for PV	%		0.001 ...100%	Applicable if FSM curve is configured as asymmetrical.

Register	Abbreviation	Description	Unit	Data type	Range	Comment
10120	PPC_RPC_PV_FSM_DROOP_O	FSM droop - overfrequency for PV	%		0.001 ... 100%	Applicable if FSM curve is configured as asymmetrical.
10122-10198		Reserved				
BATTERY						
10200	PPC_RPC_BAT_P_SET_REL_ACT	Activation "Active power setpoint battery (energy trader, relative)"	-		0 = off, 1 = on	
10202	PPC_RPC_BAT_P_SET_REL	Active power setpoint battery (energy trader, relative)	%		-125 ... 125 %	
10204	PPC_RPC_BAT_P_SET_ABS_ACT	Activation "Active power setpoint battery (energy trader, absolute)"	-		0 = off, 1 = on	
10206	PPC_RPC_BAT_P_SET_ABS	Active power setpoint battery (energy trader, absolute)	W		unlimited	
10208	PPC_RPC_BAT_FSM_ACT	Activation FSM for battery	-		0 = off, 1 = on	
10210	PPC_RPC_BAT_FSM_P_RANGE	FSM active power range for battery	%		0....125%	Applicable if FSM curve is configured as symmetrical.
10212	PPC_RPC_BAT_FSM_P_RANGE_U	FSM active power range - underfrequency for battery	%		0....125%	Applicable if FSM curve is configured as asymmetrical.
10214	PPC_RPC_BAT_FSM_P_RANGE_O	FSM active power range - overfrequency for battery	%		0....125%	Applicable if FSM curve is configured as asymmetrical.

READ VALUES

Data type: Little-Endian, byte swapped

Register	Abbreviation	Description	Unit	Data type	Range	Comment
GENERAL						
3900	PPC_QS_TS	Current timestamp of device	---	U32		This value returns a current timestamp for device health detection. From firmware 34.2.6
3902	PPC_RPC_V_MAJOR	Remote Power Control major version	-	U16		
3903	PPC_RPC_V_MINOR	Remote Power Control minor version	-	U16		
4000	PPC_P_AV_E	Agreed connected active power P_{AV}	W	F32		
4002-5000		Reserved				
5100	PPC_GCP_P_LIM_FEEDIN_REL	Active power feed-in limitation (grid operator, relative)	%	F32		
5102	PPC_GCP_P_LIM_FEEDIN_ABS	Active power feed-in limitation (grid operator, absolute)	W	F32		
5104	PPC_GCP_P_LIM_IMPORT_REL	Active power import limitation (grid operator, relative)	%	F32		
5106	PPC_GCP_P_LIM_IMPORT_ABS	Active power import limitation (grid operator, absolute)	W	F32		
5108-5198		Reserved				
PV						
5200	PPC_PV_P_LIM_REL	Active power generation limitation PV (grid operator, relative)	%	F32		
5202	PPC_PV_P_LIM_ABS	Active power generation limitation PV (grid operator, absolute)	W	F32		
5204	PPC_PV_LFSMO_P_SET_REL	Active power setpoint (LFSM-O)	%	F32		
5206	PPC_PV_LFSMU_P_SET_REL	Active power setpoint (LFSM-U)	%	F32		
5208	PPC_PV_FSM_P_SET_REL	Active power setpoint (FSM)	%	F32		
5210	PPC_PV_FSM_DELTA_P	Active power change calculated by FSM curve	%	F32		
5212	PPC_PV_P_AC_INV	Sum of inverter active power (PV)	W	F32		This value corresponds to the sum of all PV inverters connected to the master and slave devices.
5214		Reserved				
5216	PPC_PV_INV_INST	Number of installed inverters (PV)	-	F32		
5218	PPC_PV_INV_AVAIL	Number of active inverters (PV)	-	F32		

Register	Abbreviation	Description	Unit	Data type	Range	Comment
5220-5298		Reserved				
BATTERY						
5300	PPC_BAT_P_LIM_CHARGE_REL	Active power charge limitation battery (grid operator, relative)	%	F32		
5302	PPC_BAT_P_LIM_CHARGE_ABS	Active power charge limitation battery (grid operator, absolute)	W	F32		
5304	PPC_BAT_P_LIM_DISCHARGE_REL	Active power discharge limitation battery (grid operator, relative)	%	F32		
5306	PPC_BAT_P_LIM_DISCHARGE_ABS	Active power discharge limitation battery (grid operator, absolute)	W	F32		
5308	PPC_BAT_LFSMO_P_SET_REL	Active power setpoint (LFSM-O)	%	F32		
5310	PPC_BAT_LFSMU_P_SET_REL	Active power setpoint (LFSM-U)	%	F32		
5312	PPC_BAT_FSM_P_SET_REL	Active power setpoint (FSM)	%	F32		
5314	PPC_BAT_FSM_DELTA_P	Active power change calculated by FSM curve	%	F32		
5316	PPC_BAT_P_AC_INV	Sum of inverter active power battery	W	F32		This value corresponds to the sum of all battery inverters connected to the master and slave devices.
5318	PPC_BAT_SOC	State of charge relative	%	F32		
5320	PPC_BAT_SOC_ABS	State of charge absolute	Wh	F32		
5322	PPC_BAT_CAP	Battery capacity	Wh	F32		
5324-5398		Reserved				
MEASURED DATA						
5400	PPC_GHI	Actual global irradiation	W/m ²	F32		
5402	PPC_T_AMBIENT	Actual ambient temperature	°C	F32		
5404	PPC_F_AC_PF	Grid frequency	Hz			Measured frequency used for frequency control LFSM-U, LFSM-O and FSM
5406	PPC_P_AC_FEED_IN	Active power at grid connection point	W	F32		Active power value from selected meter at RPC.
5408-9998		Reserved				