Adlar Castra Aurora II - Deel 2C: Overige Parameters

Fan Control, Pump Management, Temperature Limits, System Config, Smart Grid

3.6 Fan Control (P66-P70, P17-P20)

RPM = frequency [Hz] × 15

Param	Adres	Min	Max	Unit	Beschrijving	Typical
P66	`0x0142`	20	60	Hz	DC fan initial freq. Start speed.	30-35 Hz (450-525 RPM)
P67	`0x0143`	20	80	Hz	Heating fan freq. v2.2: max 60→80.	Winter 40-50 Hz, mild 30-40 Hz
P68	`0x0144`	20	80	Hz	Cooling fan freq. v2.2: max 60→80.	Zomer 50-60 Hz, lente 35-45 Hz
P69	`0x0145`	20	80	Hz	DHW fan freq. v2.2: max 60→80.	35-45 Hz typisch
P70	`0x0146`	20	80	Hz	Floor heating fan. v2.2: max 60→80.	30-40 Hz (LT systeem)
P17	`0x0111`	0	60	°C	Cooling fan speed-up value	Bij hoge load: verhoog fan
P18	`0x0112`	0	60	°C	Cooling fan speed-down value	Lage load: reduce fan
P19	`0x0113`	0	60	°C	Heating fan speed-down value	Mild weer: lagere fan
P20	`0x0114`	0	60	°C	Heating fan speed-up value	Kou: max fan

3.7 Pump Control

Param	Adres	Waarden	Default	Beschrijving
P28	`0x011C`	0-4	0	Pump at shutdown. 0=keep running (anti-freeze!), 1=stop
P29	`0x011D`	0-10 min	2	Antifreeze pump time. 2min+ bij vorst!
P95	`0x015F`	0-2	-	Pump type. Adlar: 2 (variable DC PWM)
P260	`0x0204`	50-99 %	-	Max DC pump speed. v2.2 NEW. Factory ~80%
P261	`0x0205`	20-99 %	-	Constant temp pump speed. Typisch 40-60%
P163	`0x01A3`	0-70 %	-	Min pump speed feedback. Safety drempel
P146	`0x0192`	0-2	0	Aux heat source pump. Hybrid systemen only
P150	`0x0196`	0-3	0	Aux pump mode. v2.2: 3=temp control NEW
P161	`0x01A1`	0-4	0	Aux pump selection (loops). 0=DHW, 1=AC, 2=floor, 3=AC+floor, 4=all
P162	`0x01A2`	0-360 min	90	Antifreeze DHW interval. 90min=balans

3.8 Temperature Limits (P105-P113)

Param	Adres	Min	Max	Unit	Beschrijving	Safety
P105	`0x0169`	10	60	°C	Cooling ambient limit. T1<P105 → no cooling	Efficiency
P106	`0x016A`	10	60	°C	Heating ambient limit. T1>P106 → no heating	Zomer lockout
P107	`0x016B`	10	60	°C	DHW ambient limit	Winter DHW balans
P108	`0x016C`	30	80	°C	DHW setpoint MAX. Begrenst 0x0302	Scalding <65°C
P109	`0x016D`	10	30	°C	DHW setpoint MIN. v2.2 NEW	Legionella >40°C
P110	`0x016E`	30	80	°C	Heating setpoint MAX. VT: 60-70, LT: 45-55	Systeem type
P111	`0x016F`	15	30	°C	Heating setpoint MIN. v2.2 NEW	Comfort >20°C
P112	`0x0170`	20	40	°C	Cooling setpoint MAX	Comfort 25-28°C
P113	`0x0171`	5	20	°C	Cooling setpoint MIN. v2.2 NEW	>15°C comfort

3.9 System Configuration (P114-P120)

Param	Adres	Waarden	Beschrijving	Adlar Aurora II
P114	`0x0172`	1-2	Nr compressors. 1=single, 2=dual	Adlar: altijd 1
P115	`0x0173`	0-5	Model selection. Factory setting	NIET wijzigen!
P116	`0x0174`	0-1	**KRITIEK**: Temp sensor. 0=T6 inlet, 1=T7 outlet	⚠ Adlar: ALTIJD 0 (T6)!
P119	`0x0177`	1-3	**VALIDATIE**: Refrigerant. 1=R410A, 2=R32, 3=R290	♨ MOET 2 zijn (R32)!
P120	`0x0178`	0-1	Anti-condensation. 0=enable, 1=disable. v2.2: naam fix	Enable aanbevolen

3.10 Smart Grid (P254-P256)

Param	Adres	Waarden	Beschrijving	Roadmap
P254	`0x01FE`	0-1	Heating medium. 0=water, 1=antifreeze. v2.2 NEW	Adlar: 0 (water)
P255	`0x01FF`	0-1	Smart grid enable. 0=enable, 1=disable (inverse!)	EnergyZero API toekomst
P256	`0x0200`	0-1	Smart grid mode. Detail onbekend	SG-ready protocol

Roadmap: EnergyZero Q2 2025 → MPC Q3-Q4 2025 → Target: 15-25% cost reduction

3.11 Quiet Mode (P88-P89)

Param	Adres	Min	Max	Unit	Beschrijving
P88	`0x0158`	15	60	Hz	Quiet start freq. Via 0x1001 coil. 20-25 Hz typisch
P89	`0x0159`	15	60	Hz	Quiet run freq MAX. 30-40 Hz typisch

3.12 Overige Parameters

Param	Adres	Min-Max	Default	Unit	Beschrijving
P37	`0x0125`	0-2	0	-	Shutdown mode. 0=Smart, 1=Direct, 2=Refrig Smart
P49	`0x0131`	30-100	30	%	DHW freq % of max. v2.2 NEW. 30-40% typisch
P103	`0x0167`	0-10	-	min	Mode switch min run. 3-5 min prevent cycling
P134	`0x0186`	0-100	-	L/min	Low flow protection. Met flowmeter: 10-15 L/min
P151	`0x0197`	0-40	0	°C	Return diff DHW AHS. v2.2 NEW. Hybrid systemen
P152	`0x0198`	0-40	0	°C	Return diff heating AHS. v2.2 NEW
P182	`0x01B6`	0-3	-	-	Pipe e-heating. v2.2 NEW. 0=both, 1=3kW, 2=6kW, 3=off