

IMPORTANT NOTE

Please review the following information before proceeding.

In order to improve the restructuring of our heat pump software, we have updated the Modbus variable list.

The software versions listed below use the **HP24** Modbus variable list:

- AWD24 (ecoAIR)
- WWD24 (ecoGEO B&C)
- WWC24 (ecoGEO HP)

Older software versions use the Modbus **HP23** variable list.

For a limited period of time, in order to facilitate the transition to the new Modbus variables, **the software versions AWD24, WWD24 and WWC24 allow selection between the two lists of variables.**

It is important to note that **this functionality is temporary** and that in the future the software will only support the HP24 variable list.

To do this, in the INSTALLER MENU - REMOTE CONTROL, it is possible to select between the different Modbus lists:

BUS_HP24

BUS_HP23

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Selección BUS
BUS_HP24
APIs:
  HP24_Gateway U01.01
  HP24_Client U01.01
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ecoGEO⁺ & ecoAIR⁺

Quick guide to Modbus communications



HP24_Client_V01.00								
GROUP	DESCRIPTION	TYPE	AD- DRESS	R	R/W	GAIN	VALUES	
EQUIPMENT (EQUIPO)	SYSTEM (SISTEMA)	Year (system)	A	2000	X		1	-
		Month (system)	A	2001	X		1	-
		Day (system)	A	2002	X		1	-
		Hour (system)	A	2003	X		1	-
		Minute (system)	A	2004	X		1	-
		Software platform	A	2005	X		1	7=ESO22; 12=AWD24; 13=WWD24; 14=WWC24;
		Product range	A	2006	X		1	1=HP; 2=PS; 3=EM; 4=SM;
		Software version VXX	A	2007	X		1	-
		Compilation type letter (subversion)	A	2008	X		1	1=A; 2=B; 3=C; 4=D; 5=E; 6=F; 7=G; 8=H; 9=I; 10=J; 11=K; 12=L; 13=M; 14=N; 15=O; 16=P; 17=Q; 18=R; 19=S; 20=T; 21=U; 22=V; 23=W; 24=X; 25=Y; 26=Z;
		Software version BXX	A	2009	X		1	-
		Model code digit 1 (HP model/ODU model)	A	2010	X		1	1=0; 2=1; 3=2; 4=3; 5=4; 6=5; 7=6; 8=9;10=11; 11=A; 12=B; 13=C; 14=D; 15=E; 16=F; 17=G; 18=H; 19=I; 20=J; 21=K; 22=L; 23=M; 24=N; 25=O; 26=P; 27=Q; 28=R; 29 =S; 30=S; 31=U; 32=V; 33=W; 34=X; 35=Y; 36=Z;
		Model code digit 2 (HP model/ODU model)	A	2011	X			
		Model code digit 3 (HP model/ODU model)	A	2012	X			
		Model code digit 4 (HP model/ODU model)	A	2013	X			
		Model code digit 5 (HP model/ODU model)	A	2014	X			
		Model code digit 6 (HP model/ODU model)	A	2015	X			
		Model code digit 1 (IDU model)	A	2018	X			
	Model code digit 2 (IDU model)	A	2019	X				
	Model code digit 3 (IDU model)	A	2020	X				
	Model code digit 4 (IDU model)	A	2021	X				
	Model code digit 5 (IDU model)	A	2022	X				
	Model code digit 6 (IDU model)	A	2023	X				
	Device Role	A	2026	X		1	0 = None 1 = Individual master 2 = ecoGEO block master 3 = Block slave 4 = Supervisor 5 = Individual slave 6 = ecoAIR block master	
SERVICE STATUS (INFORMACIÓN ESTADO SERVI- CIOS)	DHW production mode status	A	2030	X		1	0=OFF; 1=ON;	
	Heating production mode status	A	2031	X		1	0=OFF; 1=ON;	
	Active cooling production mode status	A	2032	X		1	0=OFF; 1=ON;	
	Passive cooling production mode status	A	2033	X		1	0=OFF; 1=ON;	

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GROUP	DESCRIPTION	TYPE	AD- DRESS	R	R/W	GAIN	VALUES	
EQUIPMENT (EQUIPO)	SERVICE STATUS (INFORMACIÓN ESTADO SERVI- CIOS)	Pool production mode status	A	2034	X		1	0=OFF; 1=ON;
		Afreeze production mode status	A	2035	X		1	0=OFF; 1=ON;
		Dryfloor production mode status	A	2036	X		1	0=OFF; 1=ON;
	GENERATION SYSTEMS STATUS (INFORMACIÓN ESTADO GENERA- DORES)	Heat pump status	A	2045	X		1	0=OFF; 1=ON; 2=EMERGENCY
		Integrated auxiliilliary heater status (Aux 1)	A	2046	X		1	0=OFF; 1=ON;
		Generic external auxiliilliary heater status (Aux 2)	A	2047	X		1	0=OFF; 1=ON;
		DHW auxiliilliary heater status (Aux 3)	A	2048	X		1	0=OFF; 1=ON;
		BUFFER auxiliilliary heater status (Aux 4)	A	2049	X		1	0=OFF; 1=ON;
		Generic external auxiliilliary chiller status (Aux 5)	A	2050	X		1	0=OFF; 1=ON;
		DHW recirculation status	A	2055	X		1	0=OFF; 1=ON;
	CONSUMPTION GROUPS STATUS (INFORMACIÓN ESTADO GRUPOS CONSUMO)	Group 1 status	A	2056	X		1	0=OFF; 1=ON;
		Group 2 status	A	2057	X		1	0=OFF; 1=ON;
		Group 3 status	A	2058	X		1	0=OFF; 1=ON;
		Group 4 status	A	2059	X		1	0=OFF; 1=ON;
		Group 5 status	A	2060	X		1	0=OFF; 1=ON;
	ALARMS (INFORMACIÓN INFORMACIÓN ALARMAS)	Alarm level	A	2065	X		1	0=No alarm; 1=Active alarm; 2=Active alarm + recurrent alarm ; 3=Recurrent alarm; 4=Long time alarm; 5=Lock-down due to alarm;
		Lock alarma code	A	2066	X		1	Ver listado códigos de alarma See alarm code list
		Long time alarm code	A	2067	X		1	
		Recurrence alarm code	A	2068	X		1	
		Active alarm code 1	A	2069	X		1	
		Active alarm code 2	A	2070	X		1	
		Active alarm code 3	A	2071	X		1	
		Active alarm code 4	A	2072	X		1	
		Active alarm code 5	A	2073	X		1	
	Reset recurrence alarm by BUS	A	2074			X	0=OFF; 1=ON;	
	HEAT PUMP GENERAL INFORMATION (INFORMACIÓN GENERAL BOMBA CALOR)	Outdoor temperature	A	2080	X		0,1	-
	HEAT PUMP GENERAL INFORMATION (INFORMACIÓN GENERAL BOMBA CALOR)	Primary circuit outlet temperature	A	2081	X		0,1	-
		Primary circuit intlet temperature	A	2082	X		0,1	-
		Primary circuit pressure	A	2083	X		0,1	-
		Secondary circuit outlet temperature	A	2084	X		0,1	-
		Secondary circuit intlet temperature	A	2085	X		0,1	-
		Secondary circuit pressure	A	2086	X		0,1	-
		Tertiary circuit outlet temperature	A	2087	X		0,1	-
Tertiary circuit intlet temperature		A	2088	X		0,1	-	
Auxiliary heater outlet temperature		A	2089	X		0,1	-	
Auxiliary chiller outlet temperature		A	2090	X		0,1	-	
Air unit outlet temperature		A	2091	X		0,1	-	
Compressor suction temperature		A	2092	X		0,1	-	
Compressor suction pressure		A	2093	X		0,1	-	

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GROUP		DESCRIPTION	TYPE	AD- DRESS	R	R/W	GAIN	VALUES
EQUIPMENT (EQUIPO)	HEAT PUMP GENERAL INFORMATION (INFORMACIÓN GENERAL BOMBA CALOR)	Compressor discharge pressure	A	2094	X		0,1	-
		Compressor discharge temperature / Scroll temperature	A	2095	X		0,1	-
		Superheat	A	2096	X		0,1	-
		Inverter temperature	A	2097	X		0,1	-
		Evaporation temperatura	A	2098	X		0,1	-
		Condensing temperature	A	2099	X		0,1	-
		DT primary circuit	A	2100	X		0,1	-
		DT secondary circuit	A	2101	X		0,1	-
		DT tertiary circuit	A	2102	X		0,1	-
		Compressor starts (high part)	A	2103	X		1	
		Compressor starts (low part)	A	2104	X		1	
		Compressor operating hours (high part)	A	2105	X		1	
		Compressor operating hours (low part)	A	2106	X		1	
SERVICES (SERVI- CIOS)	ACCUMULA- TED SERVICES INFORMATION (INFORMACIÓN ACUMULACIÓN SERVICIOS)	DHW tank temperature	A	2130	X		0,1	-
		DHW recirculation temperature	A	2131	X		0,1	-
		Heating buffer tank temperature	A	2132	X		0,1	-
		Cooling buffer tank temperature	A	2133	X		0,1	-
		Pool temperature	A	2134	X		0,1	-
	CONSUMP- TION GROUPS INFORMATION (INFORMACIÓN GRUPOS IMPUL- SIÓN)	Group 1 delivery temperature	A	2140	X		0,1	-
		Group 2 delivery temperature	A	2141	X		0,1	-
		Group 3 delivery temperature	A	2142	X		0,1	-
		Group 4 delivery temperature	A	2143	X		0,1	-
		Group 5 delivery temperature	A	2144	X		0,1	-
	SETPOINTS CONFIGURATION (CONFIGURACIÓN CONSIGNAS)	DHW setpoint	A	2150	X		0,1	-
		Pool setpoint	A	2151	X		0,1	-
		Buffer heating setpoint	A	2152	X		0,1	-
		Buffer cooling setpoint	A	2153	X		0,1	-
		HTR setpoint	A	2154	X		0,1	-
		Group 1 heating setpoint (final setpoint)	A	2155	X		0,1	-
		Group 1 cooling setpoint (final setpoint)	A	2156	X		0,1	-
		Group 2 heating setpoint (final setpoint)	A	2157	X		0,1	-
		Group 2 cooling setpoint (final setpoint)	A	2158	X		0,1	-
		Group 3 heating setpoint (final setpoint)	A	2159	X		0,1	-
		Group 3 cooling setpoint (final setpoint)	A	2160	X		0,1	-
		Group 4 heating setpoint (final setpoint)	A	2161	X		0,1	-
		Group 4 cooling setpoint (final setpoint)	A	2162	X		0,1	-
		Group 5 heating setpoint (final setpoint)	A	2163	X		0,1	-
	Group 5 cooling setpoint (final setpoint)	A	2164	X		0,1	-	
	INDOOR ZONES INFORMATION (INFORMACIÓN ZONAS AMBIENTE INTERIOR)	Zone 1 temperature	A	2170	X		0,1	-
		Zone 2 temperature	A	2171	X		0,1	-
Zone 3 temperature		A	2172	X		0,1	-	
Zone 4 temperature		A	2173	X		0,1	-	
Zone 5 temperature		A	2174	X		0,1	-	
SERVICES (SERVI- CIOS)	INDOOR ZONES INFORMATION (INFORMACIÓN ZONAS AMBIENTE INTERIOR)	Zone 1 humidity	A	2175	X		0,1	-
		Zone 2 humidity	A	2176	X		0,1	-
		Zone 3 humidity	A	2177	X		0,1	-
		Zone 4 humidity	A	2178	X		0,1	-
		Zone 5 humidity	A	2179	X		0,1	-

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GROUP		DESCRIPTION	TYPE	ADDRESS	R	R/W	GAIN	VALUES
ENERGY METERS (CONTADORES ENERGÍA) ENERGY METERS (CONTADORES ENERGÍA)	INSTANTANEOUS COUNTER INFORMATION (INFORMACIÓN MEDIDOR INSTAN- TÁNEO)	Instantaneous power units	A	2185	X		1	10=W; 20=kW; 30=MW;
		Total heating power	A	2186	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Heating service power	A	2187	X		W-->1 kW --> 0,1 MW--> 0,1	-
		DHW service power	A	2188	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Pool service power	A	2189	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Total cooling power	A	2190	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Active cooling service power	A	2191	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Passive cooling service power	A	2192	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Total electric consumption	A	2193	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Electric consumption in surplus mode	A	2194	X		W-->1 kW --> 0,1 MW--> 0,1	-
	CURRENT DAY COUNTER INFORMATION (INFORMACIÓN CONTADOR DÍA ACTUAL)	Current day energy units	A	2200	X		1	10=Wh; 20=kWh; 30=MWh;
		DHW useful energy in current day	A	2201	X		0,1	-
		Heating useful energy in current day	A	2202	X		0,1	-
		Pool useful energy in current day	A	2203	X		0,1	-
		Active cooling useful energy in current day	A	2204	X		0,1	-
		Passive cooling useful energy in current day	A	2205	X		0,1	-
		Energy consumption in current day	A	2206	X		0,1	-
		Surplus energy consumption in current day	A	2207	X		0,1	-
		Current day auxiliary heaters units	A	2208	X		1	10=Wh; 20=kWh; 30=MWh;
		Pool service auxiliary heaters consumption in current day	A	2209	X		0,1	-
		DHW service auxiliary heaters consumption in current day	A	2210	X		0,1	-
		Heating service auxiliary heaters consumption in current day	A	2211	X		0,1	-
	CURRENT MONTH COUNTER INFORMATION (INFORMACIÓN CONTADOR MES ACTUAL)	Current month energy units	A	2220	X		1	10=Wh; 20=kWh; 30=MWh;
		DHW useful energy in current month	A	2221	X		0,1	-
		Heating useful energy in current month	A	2222	X		0,1	-
		Pool useful energy in current month	A	2223	X		0,1	-
		Active cooling useful energy in current month	A	2224	X		0,1	-
		Passive cooling useful energy in current month	A	2225	X		0,1	-

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GROUP		DESCRIPTION	TYPE	ADDRESS	R	R/W	GAIN	VALUES
ENERGY METERS (CONTADORES ENERGÍA)	CURRENT MONTH COUNTER INFORMATION (INFORMACIÓN CONTADOR MES ACTUAL)	Energy consumption in current month	A	2226	X		0,1	-
		Surplus energy consumption in current month	A	2227	X		0,1	-
		Current month auxiliary heaters units	A	2228	X		1	10=Wh; 20=kWh; 30=MWh;
		Pool service auxiliary heaters consumption in current month	A	2229	X		0,1	-
		DHW service auxiliary heaters consumption in current month	A	2230	X		0,1	-
		Heating service auxiliary heaters consumption in current month	A	2231	X		0,1	-
	ANNUAL ENERGY METER INFORMATION (INFORMACIÓN CONTADOR AÑO ACTUAL)	Annual counter units	A	2235	X		1	10=Wh; 20=kWh; 30=MWh;
		Annual DHW useful energy	A	2236	X		0,1	-
		Annual heating useful energy	A	2237	X		0,1	-
		Pool heating useful energy	A	2238	X		0,1	-
		Annual active cooling useful energy	A	2239	X		0,1	-
		Annual passive cooling useful energy	A	2240	X		0,1	-
		Annual energy consumption	A	2241	X		0,1	-
		Annual surplus energy consumption	A	2242	X		0,1	-
		Current month auxiliary heaters units	A	2243	X		1	10=Wh; 20=kWh; 30=MWh;
		Pool service auxiliary heaters consumption in current year	A	2244	X		0,1	-
		DHW service auxiliary heaters consumption in current year	A	2245	X		0,1	-
		Heating service auxiliary heaters consumption in current year	A	2246	X		0,1	-
	HISTORIC (LAST 12 MONTH COMPLETED) (INFORMACIÓN CONTADOR HISTORICO 12 MESES COMPLETOS)	Historical monthly units	A	2247	X		1	10=Wh; 20=kWh; 30=MWh;
		DHW useful energy (january)	A	2248	X		0,1	-
		DHW useful energy (february)	A	2249	X		0,1	-
		DHW useful energy (march)	A	2250	X		0,1	-
		DHW useful energy (april)	A	2251	X		0,1	-
		DHW useful energy (may)	A	2252	X		0,1	-
		DHW useful energy (june)	A	2253	X		0,1	-
		DHW useful energy (july)	A	2254	X		0,1	-
		DHW useful energy (august)	A	2255	X		0,1	-
		DHW useful energy (september)	A	2256	X		0,1	-
		DHW useful energy (october)	A	2257	X		0,1	-
		DHW useful energy (november)	A	2258	X		0,1	-
		DHW useful energy (december)	A	2259	X		0,1	-
		Heating useful energy (january)	A	2260	X		0,1	-
		Heating useful energy (february)	A	2261	X		0,1	-
		Heating useful energy (march)	A	2262	X		0,1	-
		Heating useful energy (april)	A	2263	X		0,1	-
		Heating useful energy (may)	A	2264	X		0,1	-
Heating useful energy (june)		A	2265	X		0,1	-	
Heating useful energy (july)		A	2266	X		0,1	-	
Heating useful energy (august)		A	2267	X		0,1	-	
Heating useful energy (september)		A	2268	X		0,1	-	
Heating useful energy (october)		A	2269	X		0,1	-	
Heating useful energy (november)		A	2270	X		0,1	-	

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GROUP	DESCRIPTION	TYPE	AD-DRESS	R	R/W	GAIN	VALUES
ENERGY METERS (CONTADORES ENERGÍA)	Heating useful energy (december)	A	2271	X		0,1	-
	Pool useful energy (january)	A	2272	X		0,1	-
	Pool useful energy (february)	A	2273	X		0,1	-
	Pool useful energy (march)	A	2274	X		0,1	-
	Pool useful energy (april)	A	2275	X		0,1	-
	Pool useful energy (may)	A	2276	X		0,1	-
	Pool useful energy (june)	A	2277	X		0,1	-
	Pool useful energy (july)	A	2278	X		0,1	-
	Pool useful energy (august)	A	2279	X		0,1	-
	Pool useful energy (september)	A	2280	X		0,1	-
	Pool useful energy (october)	A	2281	X		0,1	-
	Pool useful energy (november)	A	2282	X		0,1	-
	Pool useful energy (december)	A	2283	X		0,1	-
	Active cooling useful energy (january)	A	2284	X		0,1	-
	Active cooling useful energy (february)	A	2285	X		0,1	-
	Active cooling useful energy (march)	A	2286	X		0,1	-
	Active cooling useful energy (april)	A	2287	X		0,1	-
	Active cooling useful energy (may)	A	2288	X		0,1	-
	Active cooling useful energy (june)	A	2289	X		0,1	-
	Active cooling useful energy (july)	A	2290	X		0,1	-
	Active cooling useful energy (august)	A	2291	X		0,1	-
	Active cooling useful energy (september)	A	2292	X		0,1	-
	Active cooling useful energy (october)	A	2293	X		0,1	-
	Active cooling useful energy (november)	A	2294	X		0,1	-
	Active cooling useful energy (december)	A	2295	X		0,1	-
	Passive cooling useful energy (january)	A	2296	X		0,1	-
	Passive cooling useful energy (february)	A	2297	X		0,1	-
	Passive cooling useful energy (march)	A	2298	X		0,1	-
	Passive cooling useful energy (april)	A	2299	X		0,1	-
	Passive cooling useful energy (may)	A	2300	X		0,1	-
	Passive cooling useful energy (june)	A	2301	X		0,1	-
	Passive cooling useful energy (july)	A	2302	X		0,1	-
	Passive cooling useful energy (august)	A	2303	X		0,1	-
	Passive cooling useful energy (september)	A	2304	X		0,1	-
	Passive cooling useful energy (october)	A	2305	X		0,1	-
	Passive cooling useful energy (november)	A	2306	X		0,1	-
	Passive cooling useful energy (december)	A	2307	X		0,1	-
	Energy consumption (january)	A	2308	X		0,1	-
	Energy consumption (february)	A	2309	X		0,1	-
	Energy consumption (march)	A	2310	X		0,1	-
Energy consumption (april)	A	2311	X		0,1	-	
Energy consumption (may)	A	2312	X		0,1	-	
Energy consumption (june)	A	2313	X		0,1	-	
Energy consumption (july)	A	2314	X		0,1	-	
Energy consumption (august)	A	2315	X		0,1	-	
Energy consumption (september)	A	2316	X		0,1	-	

HISTORIC (LAST 12 MONTH COMPLETED) (INFORMACIÓN CONTADOR HISTORICO 12 MESES COMPLETOS)

HP24_Client_V01.00								
GROUP	DESCRIPTION	TYPE	AD- DRESS	R	R/W	GAIN	VALUES	
ENERGY METERS (CONTADORES ENERGÍA)	HISTORIC (LAST 12 MONTH COMPLETED) (INFORMACIÓN CONTADOR HIS- TORICO 12 MESES COMPLETOS)	Energy consumption (october)	A	2317	X		0,1	-
		Energy consumption (november)	A	2318	X		0,1	-
		Energy consumption (december)	A	2319	X		0,1	-
		Surplus energy consumption (january)	A	2401	X		0,1	-
		Surplus energy consumption (february)	A	2402	X		0,1	-
		Surplus energy consumption (march)	A	2403	X		0,1	-
		Surplus energy consumption (april)	A	2404	X		0,1	-
		Surplus energy consumption (may)	A	2405	X		0,1	-
		Surplus energy consumption (june)	A	2406	X		0,1	-
		Surplus energy consumption (july)	A	2407	X		0,1	-
		Surplus energy consumption (august)	A	2408	X		0,1	-
		Surplus energy consumption (sep- tember)	A	2409	X		0,1	-
		Surplus energy consumption (october)	A	2410	X		0,1	-
		Surplus energy consumption (november)	A	2411	X		0,1	-
		Surplus energy consumption (decem- ber)	A	2412	X		0,1	-
		Auxiliary heaters historical monthly units	A	2425	X		1	10=Wh; 20=kWh; 30=MWh;
		Pool auxiliary heaters historical meters (january)	A	2426	X		0,1	-
		Pool auxiliary heaters historical meters (february)	A	2427	X		0,1	-
		Pool auxiliary heaters historical meters (march)	A	2428	X		0,1	-
		Pool auxiliary heaters historical meters (april)	A	2429	X		0,1	-
		Pool auxiliary heaters historical meters (may)	A	2430	X		0,1	-
		Pool auxiliary heaters historical meters (june)	A	2431	X		0,1	-
		Pool auxiliary heaters historical meters (july)	A	2432	X		0,1	-
		Pool auxiliary heaters historical meters (august)	A	2433	X		0,1	-
		Pool auxiliary heaters historical meters (september)	A	2434	X		0,1	-
		Pool auxiliary heaters historical meters (october)	A	2435	X		0,1	-
		Pool auxiliary heaters historical meters (november)	A	2436	X		0,1	-
		Pool auxiliary heaters historical meters (december)	A	2437	X		0,1	-
		DHW auxiliary heaters historical meters (january)	A	2438	X		0,1	-
		DHW auxiliary heaters historical meters (february)	A	2439	X		0,1	-
		DHW auxiliary heaters historical meters (march)	A	2440	X		0,1	-
		DHW auxiliary heaters historical meters (april)	A	2441	X		0,1	-
		DHW auxiliary heaters historical meters (may)	A	2442	X		0,1	-
DHW auxiliary heaters historical meters (june)	A	2443	X		0,1	-		

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GROUP		DESCRIPTION	TYPE	AD-DRESS	R	R/W	GAIN	VALUES
ENERGY METERS (CONTADORES ENERGÍA)	HISTORIC (LAST 12 MONTH COMPLETED) (INFORMACIÓN CONTADOR HISTORICO 12 MESES COMPLETOS)	DHW auxiliary heaters historical meters (july)	A	2444	X		0,1	-
		DHW auxiliary heaters historical meters (august)	A	2445	X		0,1	-
		DHW auxiliary heaters historical meters (september)	A	2446	X		0,1	-
		DHW auxiliary heaters historical meters (october)	A	2447	X		0,1	-
		DHW auxiliary heaters historical meters (november)	A	2448	X		0,1	-
		DHW auxiliary heaters historical meters (december)	A	2449	X		0,1	-
		Heating auxiliary heaters historical meters (january)	A	2450	X		0,1	-
		Heating auxiliary heaters historical meters (february)	A	2451	X		0,1	-
		Heating auxiliary heaters historical meters (march)	A	2452	X		0,1	-
		Heating auxiliary heaters historical meters (april)	A	2453	X		0,1	-
		Heating auxiliary heaters historical meters (may)	A	2454	X		0,1	-
		Heating auxiliary heaters historical meters (june)	A	2455	X		0,1	-
		Heating auxiliary heaters historical meters (july)	A	2456	X		0,1	-
		Heating auxiliary heaters historical meters (august)	A	2457	X		0,1	-
		Heating auxiliary heaters historical meters (september)	A	2458	X		0,1	-
		Heating auxiliary heaters historical meters (october)	A	2459	X		0,1	-
		Heating auxiliary heaters historical meters (november)	A	2460	X		0,1	-
		Heating auxiliary heaters historical meters (december)	A	2461	X		0,1	-
e-MANAGER	E-MANAGER BALANCE INFORMATION (INFORMACIÓN E-MANAGER BALANCES INSTANTÁNEOS)	e-manager units	A	2501	X		1	10=W; 20=kW; 30=MW;
		Power consumption from electrical network	A	2504	X		W-->1 kW --> 0,1 MW--> 0,1	-
		Electrical power injected into network	A	2508	X		W-->1 kW --> 0,1 MW--> 0,1	-
BUS CONTROL (CONTROL POR BUS)	DEVICE STATUS (CONTROL ESTADO EQUIPO)	Heat pump status	A	2700		X	1	1=OFF; 2=ON; 3=Emergency;
		Operation program	A	2701		X	1	1= Winter; 2= Summer; 3= Mixto;
	SERVICE DEMANDS CONTROL (CONTROL DEMANDAS SERVICIO)	DHW BUS demand	A	2705		X	1	0=No setpoint BUS 1= Setpoint/Offset by BUS
		DHW recirculation BUS demand	A	2706		X	1	Pendiente de desarrollar
		Pool BUS demand	A	2707		X	1	0=No BUS demand; 1= BUS demand with setpoint by BUS
		Group 1 demand	A	2708		X	1	0=NoBUS demand; 1=BUS heating demand with setpoint by BUS; 2=BUS cooling demand with setpoint by BUS; 11=BUS heating demand with setpoint from heat pump; 12=BUS cooling demand with setpoint
		Group 2 demand	A	2709		X		
		Group 3 demand	A	2710		X		
		Group 4 demand	A	2711		X		
Group 5 demand	A	2712		X				

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GROUP		DESCRIPTION	TYPE	AD- DRESS	R	R/W	GAIN	VALUES
BUS CONTROL (CONTROL POR BUS)	SERVICE DE- MANDS CONTROL (CONTROL DEMANDAS SERVICIO)	Heating buffer BUS demand	A	2713		X	1	0=No setpoint BUS 1= Setpoint/Offset by BUS
		Cooling buffer BUS demand	A	2714		X	1	0=No setpoint BUS 1= Setpoint/Offset by BUS
		HTR BUS demand	A	2715		X	1	0=No setpoint BUS 1= Setpoint by BUS (offset fijo 3°C)
	SETPOINTS CON- TROL (CONTROL OBJETIVOS SER- VICIO)	DHW setpoint	A	2720		X	0,1	[Min=10,0 ... Max=82,0] [°C]
		DHW recirculation setpoint	A	2721		X	0,1	[Min=0,0 ... Max=99,9] [°C]
		Buffer tank heating setpoint	A	2722		X	0,1	[Min=20,0 ... Max=T_lim] [°C]
		Buffer tank cooling setpoint	A	2723		X	0,1	[Min=T_lim ... Max=25,0] [°C]
		HTR setpoint by BUS	A	2724		X	0,1	[Min=0,0 ... Max=82,0] [°C]
		Offset DHW	A	2725		X	0,1	[Min=2,0 ... Max=25,0] [°C]
		Offset DHE recirculation	A	2726		X	0,1	[Min=0,0 ... Max=99,9] [°C]
		Offset heating buffer tank	A	2727		X	0,1	[Min=2,0 ... Max=10,0] [°C]
		Offset cooling buffer tank	A	2728		X	0,1	[Min=2,0 ... Max=10,0] [°C]
		Offset pool	A	2729		X	0,1	[Min=0,5 ... Max=20,0] [°C]
		Heating group 1 setpoint	A	2730		X	0,1	[Min=20,0 ... Max=T_lim] [°C]
		Cooling group 1 setpoint	A	2731		X	0,1	[Min=T_lim ... Max=25,0] [°C]
		Heating group 2 setpoint	A	2732		X	0,1	[Min=20,0 ... Max=T_lim] [°C]
		Cooling group 2 setpoint	A	2733		X	0,1	[Min=T_lim ... Max=25,0] [°C]
		Heating group 3 setpoint	A	2734		X	0,1	[Min=20,0 ... Max=T_lim] [°C]
		Cooling group 3 setpoint	A	2735		X	0,1	[Min=T_lim ... Max=25,0] [°C]
		Heating group 4 setpoint	A	2736		X	0,1	[Min=20,0 ... Max=T_lim] [°C]
	Cooling group 4 setpoint	A	2737		X	0,1	[Min=T_lim ... Max=25,0] [°C]	
	Heating group 5 setpoint	A	2738		X	0,1	[Min=20,0 ... Max=T_lim] [°C]	
	Cooling group 5 setpoint	A	2739		X	0,1	[Min=T_lim ... Max=25,0] [°C]	
	Pool setpoint (delivery temperature/pool)	A	2740		X	0,1	[Min=20,0 ... Max=T_lim] [°C]	
	BUS AMBIENT TERMINALS CON- TROL (CONTROL TERMINALES BUS AMBIENTE INTERIORES)	Zone 1 BUS terminal ON/OFF	A	2750		X	1	0=OFF; 1=ON;
		Zone 2 BUS terminal ON/OFF	A	2751		X	1	0=OFF; 1=ON;
		Zone 3 BUS terminal ON/OFF	A	2752		X	1	0=OFF; 1=ON;
		Zone 4 BUS terminal ON/OFF	A	2753		X	1	0=OFF; 1=ON;
		Zone 5 BUS terminal ON/OFF	A	2754		X	1	0=OFF; 1=ON;
		Zone 1 ambient temperature setpoint	A	2755		X	0,1	[Min=5,0 ... Max=35,0] [°C]
		Zone 2 ambient temperature setpoint	A	2756		X	0,1	[Min=5,0 ... Max=35,0] [°C]
		Zone 3 ambient temperature setpoint	A	2757		X	0,1	[Min=5,0 ... Max=35,0] [°C]
		Zone 4 ambient temperature setpoint	A	2758		X	0,1	[Min=5,0 ... Max=35,0] [°C]
		Zone 5 ambient temperature setpoint	A	2759		X	0,1	[Min=5,0 ... Max=35,0] [°C]
	COMPRESSOR SPEED (CONTROL VELOCIDAD COMPRESOR)	Maximun reference of compresor (%)	A	2765		X	0,1	0-100,0 [%]
	SURPLUS CON- TROL (CONTROL BALANCE RED)	Surplus control enabled by BUS	A	2775		X	1	0=OFF; 1=ON;
		Maximun consumption enabled by BUS	A	2776		X	1	0=OFF; 1=ON;
		Surplus regulation setpoint	A	2777		X	0,1	[Min=-99,9 ... Max=99,9] [kW]
		Maximun consumption setpoint	A	2778		X	0,1	[Min=-99,9 ... Max=99,9] [kW]

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