

## 5.3 DATA AVAILABLE FOR LINE-UP YUTAKI 2016 SERIES

### 5.3.1 General parameters

Register	Address	Description	Range	Type
1001	1000	Control Unit Run/Stop	0: Stop 1: Run	R/W
1002	1001	Control Unit Mode	0: Cool (*2) 1: Heat 2: Auto	R/W
1003	1002	Control Circuit 1 Run/Stop	0: Stop 1: Run	R/W
1004	1003	Control Heat. OTC Circuit 1	0: No 1: Points 2: Gradient 3: Fix	R/W
1005	1004	Control Cool. OTC Circuit 1 (*2)	0: No 1: Points 2: Fix	R/W
1006	1005	Control Circuit 1: Water heating Fix Setting Temp	0~80 °C(*3)	R/W
1007	1006	Control Circuit 1: Water cooling Fix Setting Temp (*2)	0~80 °C(*3)	R/W
1008	1007	Control Circuit 1: Eco mode	0: ECO 1: Comfort	R/W
1009	1008	Control Circuit 1: Heat ECO Offset Temperature	1~10	R/W
1010	1009	Control Circuit 1: Cool ECO Offset Temperature (*2)	1~10	R/W
1011	1010	Control Circuit 1: Thermostat Available (*7)	0: Not Available 1: Available	R/W
1012	1011	Control Circuit 1: Thermostat Setting Temperature	50~350 (5,0~35,0 °C)	R/W
1013	1012	Control Circuit 1: Thermostat Room Temperature (*8)	0~1000 (0,0~100,0 °C)	R/W
1014	1013	Control Circuit 2 Run/Stop	0: Stop 1: Run	R/W
1015	1014	Control Heat. OTC Circuit 2	0: No 1: Points 2: Gradient 3: Fix	R/W
1016	1015	Control Cool. OTC Circuit 2 (*2)	0: No 1: Points 2: Fix	R/W
1017	1016	Control Circuit 2: Water heating Fix Setting Temp	0~80 °C(*3)	R/W
1018	1017	Control Circuit 2: Water cooling Fix Setting Temp (*2)	0~80 °C(*3)	R/W
1019	1018	Control Circuit 2: Eco mode	0: ECO 1: Comfort	R/W
1020	1019	Control Circuit 2: Heat ECO Offset Temperature	1~10	R/W
1021	1020	Control Circuit 2: Cool ECO Offset Temperature (*2)	1~10	R/W
1022	1021	Control Circuit 2: Thermostat Available (*7)	0: Not Available 1: Available	R/W
1023	1022	Control Circuit 2: Thermostat Setting Temperature	50~350 (5,0~35,0 °C)	R/W
1024	1023	Control Circuit 2: Thermostat Room Temperature (*8)	0~1000 (0,0~100,0 °C)	
1025	1024	Control DHWT Run/Stop	0: Stop 1: Run	R/W
1026	1025	Control DHWT Setting Temperature	0~80 °C(*3)	R/W
1027	1026	Control DHW Boost	0: No request 1: Request	R/W
1028	1027	Control DHW Demand Mode	0: Standard 1: High demand	R/W
1029	1028	Control Swimming Pool Run/Stop	0: Stop 1: Run	R/W
1030	1029	Control Swimming Pool Setting Temperature	0~80 °C(*3)	R/W
1031	1030	Control Anti Legionella Run (*9)	0: Stop 1: Run	R/W
1032	1031	Control Anti Legionella Setting Temperature	0~80 °C(*3)	R/W
1033	1032	Control Block menu (*6)	0: No 1: Block	R/W
1034	1033	Control BMS Alarm (*4)	0: No Alarm 1: Alarm	R/W
1051	1050	Status Unit Run/Stop	0: Stop 1: Run	R

Register	Address	Description	Range	Type
1052	1051	Status Unit Mode	0: Cool (*2) 1: Heat	R
1053	1052	Status Circuit 1 Run/Stop	0: Stop 1: Run	R
1054	1053	Status Heat. OTC Circuit 1	0: No 1: Points 2: Gradient 3: Fix	R
1055	1054	Status Cool. OTC Circuit 1 (*2)	0: No 1: Points 2: Fix	R
1056	1055	Status Circuit 1: Water heating Fix Setting Temp	0~80 °C(*3)	R
1057	1056	Status Circuit 1: Water cooling Fix Setting Temp (*2)	0~80 °C(*3)	R
1058	1057	Status Circuit 1: Eco mode	0: ECO 1: Comfort	R
1059	1058	Status Circuit 1: Heat ECO Offset Temperature	1~10	R
1060	1059	Status Circuit 1: Cool ECO Offset Temperature (*2)	1~10	R
1061	1060	Status Circuit 1: Thermostat Setting Temperature	50~350 (5,0~35,0 °C)	R
1062	1061	Status Circuit 1: Thermostat Room Temperature	0~1000 (0,0~100,0 °C)	R
1063	1062	Status Circuit 1: Wireless Setting Temperature (*5)	50~350 (5,0~35,0 °C)	R
1064	1063	Status Circuit 1: Wireless Room Temperature (*5)	0~1000 (0,0~100,0 °C)	R
1065	1064	Status Circuit 2 Run/Stop	0: Stop 1: Run	R
1066	1065	Status Heat. OTC Circuit 2	0: No 1: Points 2: Gradient 3: Fix	R
1067	1066	Status Cool. OTC Circuit 2 (*2)	0: No 1: Points 2: Fix	R
1068	1067	Status Circuit 2: Water heating Fix Setting Temp	0~80 °C(*3)	R
1069	1068	Status Circuit 2: Water cooling Fix Setting Temp (*2)	0~80 °C(*3)	R
1070	1069	Status Circuit 2: Eco mode	0: ECO 1: Comfort	R
1071	1070	Status Circuit 2: Heat ECO Offset Temperature	1~10	R
1072	1071	Status Circuit 2: Cool ECO Offset Temperature (*2)	1~10	R
1073	1072	Status Circuit 2: Thermostat Setting Temperature	50~350 (5,0~35,0 °C)	R
1074	1073	Status Circuit 2: Thermostat Room Temperature	0~1000 (0,0~100,0 °C)	R
1075	1074	Status Circuit 2: Wireless Setting Temperature (*5)	50~350 (5,0~35,0 °C)	R
1076	1075	Status Circuit 2: Wireless Room Temperature (*5)	0~1000 (0,0~100,0 °C)	R
1077	1076	Status DHWT Run/Stop	0: Stop 1: Run	R
1078	1077	Status DHWT Setting Temperature	0~80 °C(*3)	R
1079	1078	Control DHW Boost	0: Disable 1: Enable	R
1080	1079	Status DHW Demand Mode	0: Standard 1: High demand	R
1081	1080	Status DHW Temperature	-80~100 °C (*1)	R
1082	1081	Status Swimming Pool Run/Stop	0: Stop 1: Run	R
1083	1082	Status Swimming Pool Setting Temperature	0~80 °C(*3)	R
1084	1083	Status Swimming Pool Temperature	-80~100 °C (*1)	
1085	1084	Status Anti Legionella Run	0: Stop 1: Run	R
1086	1085	Status Anti Legionella Setting Temperature	0~80 °C(*3)	R
1087	1086	Status Block menu (*6)	0: No 1: Block	R
1088	1087	Status BMS Alarm	0: No 1: Alarm	R
1089	1088	Central Mode	0: Local 1: Air 2: Water 3: Full	R

Register	Address	Description	Range	Type
1090	1089	System Configuration	Bit 0: Circuit 1 Heating Bit 1: Circuit 2 Heating Bit 2: Circuit 1 Cooling (*2) Bit 3: Circuit 2 Cooling (*2) Bit 4: DHWT Bit 5: SWP Bit 6: Room thermostat Circuit 1 Bit 7: Room thermostat Circuit 2 Bit 8: Wireless setting Circuit 1 Bit 9: Wireless setting Circuit 2 Bit 10: Wireless room temperature Circuit 1 Bit 11: Wireless room temperature Circuit 2	R
1091	1090	Operation State	0: OFF 1: Cool Demand –OFF (*2) 2: Cool Thermo-OFF (*2) 3: Cool Thermo-ON (*2) 4: Heat Demand-OFF 5: Heat Thermo-OFF 6: Heat Thermo-ON 7: DHW-OFF 8: DHW-ON 9: SWP-OFF 10: SWP-ON 11: Alarm	R
1092	1091	Outdoor ambient temperature	-80~100 °C (*1)	R
1093	1092	Water Inlet unit temperature	-80~100 °C (*1)	R
1094	1093	Water outlet unit temperature	-80~100 °C (*1)	R
1095	1094	H-LINK communication state	0: No alarm 1: There is no communication with RCS or YUTAKI unit during more than 180 seconds 2: Data initialization	R
1096	1095	Software PCB		R
1097	1096	Software LCD		R
1098	1097	Unit Capacity	0~255 kWh	R
1099	1098	Unit Power consumption	0~255 kWh	R

## NOTE

- (\*1) These numbers are expressed as a signed 16-bit value using 2-complement format for negative values.
- (\*2) Only for Heating and Cooling units.
- (\*3) This value is limited by the machine according to their rank.
- (\*4) This parameter informs that the modbus net is in alarm
- (\*5) These parameters show thermostat setting and room temperature, which may be different than those in the unit when using central control (Thermostat and Room sensor via Modbus)
- (\*6) Access to menu in unit control is blocked
- (\*7) Enable this parameter when using Modbus thermostat
- (\*8) This parameter can only be used if no have installed HITACHI thermostat, only when using Modbus thermostat. Unless the central bit is enabled, so the HITACHI thermostat is used only for setting temperature.
- (\*9) This parameter can only be used if the function is enabled on the LCD.

### 5.3.2 Servicing parameters

Register	Address	Description	Range	Type
1201	1200	Water outlet hp T° (Water outlet hp outlet unit temperature)	0~100 °C	R
1202	1201	Ta2: Outdoor Unit Ambient Average Temp.	-80~100 °C (*1)	R
1203	1202	Ta: Second Ambient Temperature	-80~100 °C (*1)	R
1204	1203	Ta3: Second ambient average temp.	-80~100 °C (*1)	R
1205	1204	O2: Water outlet Temp. 2 (Two2)	-80~100 °C (*1)	R
1206	1205	O3: Water outlet Temp. 3 (Two3)	-80~100 °C (*1)	R
1207	1206	Tg: Gas Temperature (THMg)	-80~100 °C (*1)	R
1208	1207	TI: Liquid Temperature (THMI)	-80~100 °C (*1)	R
1209	1208	Td: Discharge Gas temp	-80~100 °C (*1)	R
1210	1209	Te: Evaporation temp	-80~100 °C (*1)	R
1211	1210	EVI: Indoor Expansion valve opening	0~100 %	R
1212	1211	EVO: Outdoor Expansion valve	0~100 %	R
1213	1212	H4: Inverter Operation frequency	0~115 Hz (*3)	R
1214	1213	DI: Cause of stoppage		R
1215	1214	P1: Compressor running current	0~30 A (*3)	R
1216	1215	CD: Capacity data		R
1217	1216	MVP: Mixing valve position	Only Circuit 2	R
1218	1217	Defrosting		R
1219	1218	Unit model	0: YUTAKI S 1: YUTAKI S COMBI 2: S80 3: M	R
1220	1219	Th: Water Temp. Setting (Ttwo)	-80~100 °C (*1)	R
1221	1220	Water flow level	0~30 (0,0~3,0 m³/h)	R
1222	1221	Water pump speed	0~100 %	R
1223	1222	System status 2	Bit 0: Defrost Bit 1: Solar Bit 2: Water Pump 1 Bit 3: Water Pump 2 Bit 4: Water Pump 3 Bit 5: Compressor ON Bit 6: Boiler ON Bit 7: DHW Heater Bit 8: Space Heater Bit 9: Smart function input enable	R
1224	1223	Alarm number	0: No Alarm XXX: Alarm number	R
1225	1224	R134a Discharge Temperature	-80~100 °C (*1)	R
1226	1225	R134a Suction temperature	-80~100 °C (*1)	R
1227	1226	R134a Discharge Pressure	-0~510 (0'00~5'10 MPa)	R
1228	1227	R134a Suction pressure	-0~255 (0'00~2'55 MPa)	R
1229	1228	R134a Compressor frequency	-0~115 Hz (*3)	R
1230	1229	R134a Indoor Expansion valve 2 opening	-0~100 %	R
1231	1230	R134a Compressor current value	-0~300 (0'00~30'0 A)	R
1232	1231	R134a Retry Code		R

#### NOTE

- (\*1) These numbers are expressed as a signed 16-bit value using 2-complement format for negative values.
- (\*2) Only for Heating and Cooling units.
- (\*3) This value is limited by the machine according to their rank.