# Schneider Electric

## Modbus Register Map: InRow RD

Part number: 990-3576B

08/2015

**Notes:**

1. 16-bit registers are transmitted MSB first (i.e., big-endian).
2. INT32 and UINT32 are most-significant word in n+0, least significant word in n+1 (i.e. big-endian).
3. Reads can be performed with function codes 3, or 4. Writes can be performed with function code 16, or with function code 6 to registers with length 1.
4. Modbus serial RTU and Modbus over TCP is supported.
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7. Strings are two characters per register, first character in high-order byte, second character in low-order byte. Printable ASCII only.
8. When writing an ASCII string the null terminator must be included.
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10. Data Type column: "INT16"=signed 16-bit integer, "UINT16" = unsigned 16-bit integer, "INT32" = signed 32-bit integer, "UINT32" = unsigned 32-bit integer, "ENUM" is a UINT16 value which maps to a defined list of states, "ASCII" = the printable ASCII subset from 0x20 - 0x7E. BOOLEAN= a single bit, 0 or 1.
11. "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.
12. Accesses to items before data is available will reult in an invalid address error.
13. Response Timeout Guide: A single register response is typically less than 100 ms; however, reading a large number of registers may take 2 seconds or more. If timeouts occur, reduce the number of registers in each request or increase the response timeout.

| Absolute Starting Register Number, (Hexadecimal) | Absolute Starting Register Number, (Decimal) | Data Point | R/W | Length | Units | Valid Response | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| // Group | | | | | | | | | | |
| 0000 | 0 | NUMBER_OF_COOLING_UNITS | R/W | 2 | LONG | | | | | |
| 0002 | 2 | COOL_SETPOINT | R/W | 2 | LONG | (Tenths Deg) F | | | | |
| 0004 | 4 | SUPPLY_AIR_SETPOINT | R/W | 2 | LONG | (Tenths Deg) F | | | | |
| 0006 | 6 | CONFIGURATION_TYPE | R/W | 1 | ENUM | 0 = RACS | 1 = Spot | 2 = In-Row | 3 = HACS | 4 = CACS |
| 0007 | 7 | FAN_SPEED_PREFERENCE | R/W | 1 | ENUM | 0 = Low | 1 = Med-Low | 2 = Med | 3 = Med-High | 4 = High |
| 0008 | 8 | CAPACITY_CTRL | R/W | 1 | ENUM | 0 = Discrete (Disc) | 1 = Proportional (Prop) | | | |
| 0009 | 9 | FAN_SPEED_CTRL | R/W | 1 | ENUM | 0 = Automatic | 1 = Manual | | | |
| 000A | 10 | COOL_DEADBAND | R/W | 2 | LONG | (Tenths Deg) F | | | | |
| 000C | 12 | RACK_INLET_MAX_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 000E | 14 | RACK_INLET_MIN_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 0010 | 16 | RETURN_AIR_MAX_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 0012 | 18 | RETURN_AIR_MIN_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 0014 | 20 | COOLING_DEMAND | R | 2 | LONG | (Tenths) kW | | | | |
| 0016 | 22 | COOLING_ACTUAL | R | 2 | LONG | (Tenths) kW | | | | |
| 0018 | 24 | AIRFLOW_DEMAND | R | 2 | LONG | CFM | | | | |
| 001A | 26 | COOL_PID_P | R/W | 2 | LONG | (Hundredths) Unitless | | | | |
| 001C | 28 | COOL_PID_I | R/W | 2 | LONG | (Hundredths) Unitless | | | | |
| 001E | 30 | COOL_PID_D | R/W | 2 | LONG | (Hundredths) Unitless | | | | |
| 0020 | 32 | NUMBER_OF_BACKUP_UNITS | R/W | 2 | LONG | | | | | |
| 0022 | 34 | RUNTIME_BALANCING_ENABLE | R/W | 1 | ENUM | 0 = Disable | 1 = Enable | | | |
| 0023 | 35 | LOAD_ASSIST_ENABLE | R/W | 1 | ENUM | 0 = Disable | 1 = Enable | | | |
| 0024 | 36 | ALTITUDE | R/W | 2 | LONG | Feet | | | | |
| 0026 | 38 | NUM_ACTIVE_FLOW_CONTROLLERS | R/W | 2 | LONG | N/A | | | | |
| 0028 | 40 | ACTIVE_FLOW_CONTROL_BIAS | R/W | 1 | ENUM | 0 = Positive | 1 = Slightly Positive | 2 = Zero | 3 = Slightly Neg | 4 = Negative |
| 0029 | 41 | ACTIVE_FLOW_CONTROL_STATUS | R | 1 | ENUM | 0 = Under | 1 = Okay | 2 = Over | 3 = N/A | |
| 002A | 42 | ACTIVE_FLOW_CONTROL_LAMP_TEST | R/W | 1 | ENUM | 0 = Disable | 1 = Enable | | | |
| // Unit | | | | | | | | | | |
| 0040 | 64 | OVERALL_STATUS | R | 1 | ENUM | 0 = No Alarm | 2 = Informational | 4 = Warning | 8 = Critical | |
| 0041 | 65 | UNIT_NAME | R/W | 21 | ASCII | N/A | | | | |
| 0056 | 86 | UNIT_LOCATION | R/W | 21 | ASCII | N/A | | | | |
| 006B | 107 | MODEL_NUM | R | 10 | ASCII | N/A | | | | |
| 0075 | 117 | SERIAL_NUM | R | 10 | ASCII | N/A | | | | |
| 007F | 127 | FIRMWARE_REV | R | 4 | ASCII | N/A | | | | |
| 0083 | 131 | HARDWARE_REV | R | 4 | ASCII | N/A | | | | |
| 0087 | 135 | DATE_OF_MANUFACTURE | R | 6 | ASCII | mm/dd/yyyy | | | | |

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| Absolute Starting Register Number, (Hexadecimal) | Absolute Starting Register Number, (Decimal) | Data Point | R/W | Length | Units | Valid Response | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 008D | 141 | OPERATE_MODE | R | 1 | ENUM | 0 = Standby | 1 = On | 2 = Idle | 4 = Service | 5 = Backup 6 = Assist |
| 008E | 142 | UNIT_TYPE | R | 1 | ENUM | 0 = Not Configured | 1 = Fluid Cooled | 2 = Air Cooled | | |
| 008F | 143 | UNIT_COOL_OUTPUT | R | 2 | LONG | (Tenths) kW | | | | |
| 0091 | 145 | UNIT_COOL_DEMAND | R | 2 | LONG | (Tenths) kW | | | | |
| 0093 | 147 | RACK_INLET_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 0095 | 149 | SUPPLY_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 0097 | 151 | RETURN_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 0099 | 153 | UNIT_AIR_FLOW | R | 2 | LONG | CFM | | | | |
| 009B | 155 | FAN_SPEED | R | 2 | LONG | (Tenths) % | | | | |
| 009D | 157 | SUCTION_TEMP | R | 2 | LONG | (Tenths Deg) F | | | | |
| 009F | 159 | SUPERHEAT | R | 2 | LONG | (Tenths Deg) F | | | | |
| 00A1 | 161 | FILTER_DP | R | 2 | LONG | (Hundredths) in W.C. | | | | |
| 00A3 | 163 | FLUID_VALVE_POSITION | R | 2 | LONG | % | | | | |
| 00A5 | 165 | SUCTION_PRESSURE | R | 2 | LONG | Psi | | | | |
| 00A7 | 167 | DISCHARGE_PRESSURE | R | 2 | LONG | Psi | | | | |
| 00A9 | 169 | AIR_FILTER_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00AB | 171 | FAN_1_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00AD | 173 | FAN_2_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00AF | 175 | FAN_3_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00B1 | 177 | FAN_4_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00B3 | 179 | FAN_5_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00B5 | 181 | FAN_6_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00B7 | 183 | COMPRESSOR_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00B9 | 185 | FAN_UPPER_PWRSP_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00BB | 187 | FAN_LOWER_PWRSP_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00BD | 189 | CONDS_PUMP_RUNHOUR | R | 2 | LONG | Hours | | | | |
| 00BF | 191 | AIR_FILTER_SERV_INT | R/W | 2 | LONG | Weeks | | | | |
| 00C1 | 193 | AIR_FILTER_SERV_INT_ALARM | R/W | 1 | ENUM | 0 = Disable | 1 = Enable | | | |
| 00C2 | 194 | RACK_TEMP_HIGH_THRESH | R/W | 2 | LONG | (Tenths Deg) F | | | | |
| 00C4 | 196 | SPLY_AIR_TEMP_HIGH_THRESH | R/W | 2 | LONG | (Tenths Deg) F | | | | |
| 00C6 | 198 | RTN_AIR_TEMP_HIGH_THRESH | R/W | 2 | LONG | (Tenths Deg) F | | | | |
| 00C8 | 200 | STARTUP_DELAY | R/W | 2 | LONG | Seconds | | | | |
| 00CA | 202 | IDLE_ON_LEAK | R/W | 1 | ENUM | 0 = No | 1 = Yes | | | |
| 00CB | 203 | INPUT_NORMAL | R/W | 1 | ENUM | 0 = Open | 1 = Closed | | | |
| 00CC | 204 | INPUT_STATE | R | 1 | ENUM | 0 = Open | 1 = Closed | | | |
| 00CD | 205 | OUTPUT_NORMAL | R/W | 1 | ENUM | 0 = Open | 1 = Closed | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 00CE | 206 | OUTPUT_STATE | R | 1 | ENUM | 0 = Open | 1 = Closed | | | | |
| 00CF | 207 | OUTPUT_SOURCE | R/W | 1 | ENUM | 0 = Any Alarm | 1 = Only Critical Alarms | | | | |
| 00D0 | 208 | OHE_INPUT_NORMAL | R/W | 1 | ENUM | 0 = Open | 1 = Closed | | | | |
| 00D1 | 209 | OHE_INPUT_STATE | R | 1 | ENUM | 0 = Open | 1 = Closed | | | | |
| 00D2 | 210 | OHE_OUTPUT_STATE | R | 1 | ENUM | 0 = Open | 1 = Closed | | | | |
| 00D3 | 211 | COMPRESSOR_STATE | R | 1 | ENUM | 0 = Off | 1 = On | | | | |
| 00D4 | 212 | HOT_GAS_BYPASS_VALVE_POSITION | R | 2 | LONG | (Hundredths) % | | | | | |
| 00D6 | 214 | UNIT_RUNHOUR | R | 2 | LONG | Hours | | | | | |
| 00D8 | 216 | UNIT_ROLE_OVERRIDE | R/W | 1 | ENUM | 0 = Automatic | 1 = Forced On | | | | |
| 00D9 | 217 | IDLE_ON_COOL_FAIL | R/W | 1 | ENUM | 0 = No | 1 = Yes | | | | |
| // Alarms | | | | | | | | | | | |
| 0100 | 256 | INTERNAL_COMM_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0101 | 257 | ALINK_ISOLATION_RELAY_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0102 | 258 | EXTERNAL_COMMUNICATION_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0103 | 259 | COOL_FAIL | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0104 | 260 | RACK_TEMP_HIGH_VIOLATION | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0105 | 261 | AIR_FILTER_CLOGGED | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0106 | 262 | UPPER_RTN_AIR_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0107 | 263 | Reserved | R | 1 | | | | | | | |
| 0108 | 264 | LOWER_RTN_AIR_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0109 | 265 | UPPER_SPLY_AIR_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 010A | 266 | MIDDLE_SPLY_AIR_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 010B | 267 | LOWER_SPLY_AIR_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 010C | 268 | RACK_TEMP_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 010D | 269 | CONDENSOR_FLUID_ACUATOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 010E | 270 | HIGH_DISCHARGE_PRESSURE_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 010F | 271 | LOW_SUCTION_PRESSURE_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0110 | 272 | EVAPORATOR_FAN_1_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0111 | 273 | EVAPORATOR_FAN_2_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0112 | 274 | EVAPORATOR_FAN_3_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0113 | 275 | EVAPORATOR_FAN_4_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0114 | 276 | EVAPORATOR_FAN_5_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0115 | 277 | EVAPORATOR_FAN_6_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0116 | 278 | WATER_DETECTED | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0117 | 279 | CHECK_CONDENSATE_SYSTEM | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |
| 0118 | 280 | CONDENSATE_PAN_FULL | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|
| 0119 | 281 | TOP_FAN_PWRSP_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 011A | 282 | BOTTOM_FAN_PWRSP_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 011B | 283 | AIR_FILTER_RUNHOUR_VIOLATION | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 011C | 284 | GROUP_COMM_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 011D | 285 | SUPPLY_HIGH_TEMP_VIOLATION | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 011E | 286 | RETURN_HIGH_TEMP_VIOLATION | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 011F | 287 | FILTER_DP_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0120 | 288 | SUCTION_TEMP_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0121 | 289 | SUCTION_PRESSURE_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0122 | 290 | DISCHARGE_PRESS_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0123 | 291 | DISCRETE_INPUT_ABNORMAL | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0124 | 292 | PERSISTENT_HIGH_DISCHARGE_PRESSU | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0125 | 293 | PERSISTENT_LOW_SUCTION_PRESSURE | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0126 | 294 | Reserved | R | 3 | | | | | | |
| 0129 | 297 | OUTSIDE_HEAT_EXCHANGE_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 012A | 298 | Reserved | R | 1 | | | | | | |
| 012B | 299 | UNIT_TYPE_CONFLICT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 012C | 300 | LIQUID_REFRIGERANT_SENSOR_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 012D | 301 | EXCESSIVE_COMP_CYCLING_ALARM | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 012E | 302 | NO_BACKUP_UNITS_AVAILABLE | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 012F | 303 | COMPRESSOR_DID_NOT_START_ALARM | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0130 | 304 | ECOAISLE_DOOR_OPEN_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0131 | 305 | NUM_OF_ACTIVE_FLOW_CONTROLLERS | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0132 | 306 | INSUFFICIENT_AIRFLOW_FAULT | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| 0133 | 307 | ACTIVE_FLOW_CONTROLLER_SENSOR_I | R | 1 | ENUM | 0 = Clear | 1 = Alarm | | | |
| // Logging Registers | | | | | | | | | | |
| FFEE | 65518 | APC RX CRC ERRORS | R | 2 | LONG | RX CRC ERRORS | | | | |
| FFF0 | 65520 | APC RX PACKET COUNTER | R | 2 | LONG | RX PACKET COUNTER | | | | |
| FFF2 | 65522 | APC TX PACKET COUNTER | R | 2 | LONG | TX PACKET COUNTER | | | | |
| FFF4 | 65524 | APC SER FRAME ERRORS | R | 2 | LONG | SER FRAME ERRORS | | | | |
| FFF6 | 65526 | APC SER OVERRUN ERRORS | R | 2 | LONG | SER OVERRUN ERRORS | | | | |
| FFF8 | 65528 | APC SER PARITY ERRORS | R | 2 | LONG | SER PARITY ERRORS | | | | |
| FFFA | 65530 | APC SER RX15 ERRORS | R | 2 | LONG | SER RX15 ERRORS | | | | |
| FFFC | 65532 | APC SER RX35 ERRORS | R | 2 | LONG | SER RX35 ERRORS | | | | |
| FFFE | 65534 | APC SER BAUD RATE | R | 1 | INTEGER | SER BAUD RATE | | | | |
| // END OF DATA | | | | | | | | | | |

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| Note 1: ASCII strings include Null terminator. | | | | | | | | | | |
| Note 2: To prevent Building Management Service and automated script difficulties, accesses to data points on unsupported units will return a value of 0 instead of an error. | | | | | | | | | | |
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| **Worldwide Customer Support** | | | | | | | | | | |
| Customer support for this or any other Schneider-Electric product is available at no charge in any of the following ways: | | | | | | | | | | |
| * Visit the Schneider-Electric Web site to access documents in the Schneider-Electric Knowledge Base and to submit customer support requests. | | | | | | | | | | |
| - www.schneider-electric.com (Corporate Headquarters) Connect to localized Schneider-Electric Web sites for specific countries, each of which provides customer support information. | | | | | | | | | | |
| - www2.schneider-electric.com/sites/corporate/en/support/support.page - Global support searching Schneider-Electric Knowledge Base and using e-support. | | | | | | | | | | |
| * Contact the Schneider-Electric Customer Support Center by telephone or e-mail. | | | | | | | | | | |
| - Local, country-specific centers: go to www2.schneider-electric.com/sites/corporate/en/support/operations/local-operations/local-operations.page for contact information. | | | | | | | | | | |
| For information on how to obtain local customer support, contact the Schneider-Electric representative or other distributors from whom you purchased your Schneider-Electric product. | | | | | | | | | | |