AIRZONE-OPENTHERM AIR TO WATER HP GATEWAY

Product details

Manufacturer:	CORPORACIÓN EMPRESARIAL ALTRA
Brand:	AIRZONE
Product identification:	AZX6GAWOTH
Product description:	Airzone communication gateway for OpenTherm protocol units. Powered by the Airzone system. Assembly and connection on the Air to Water unit bus/domotic bus depending on the enabled Airzone devices. Product developed and tested in collaboration with the manufacturer. Features: • Two-way communication of the basic control parameters depending on the demand of the Airzone control system. • Unit status and temperature control (Return water and DHW temperatures). • Automatic detection of available modes in the unit. • Compatible with OpenTherm OT/+ and OT/- control protocols. • Reading of the DHW tank and return water temperatures when available. • Reading of errors of the controlled unit when available. • Imposes water production temperature based on the demand and Eco-Adapt algorithm.

Company

Company name:	Corporación empresarial Altra S.L.
City:	Malaga
Country:	SPAIN

Interfaces

Interface 1 (Master)

Functions and Features

ch: info
ch: service/diagnostics
cooling: info
cooling: service/diagnostics
dhw: info
dhw: service/diagnostics
dhw: setpoint adjustment
general: info
general: service/diagnostics
general: standard

ID's

ID 000:HB0: Master status: CH enable
ID 000:HB1: Master status: DHW enable
ID 000:HB2: Master status: Cooling enable
ID 000:HB5: Master status: Summer/winter mode
ID 000:LB0: Slave Status: Fault indication
ID 000:LB1: Slave Status: CH mode
ID 000:LB2: Slave Status: DHW mode
ID 000:LB3: Slave Status: Flame status
ID 000:LB4: Slave Status: Cooling status
ID 000:LB6: Slave Status: Diagnostic/service indication
ID 001: Control Setpoint i.e. CH water temperature Setpoint (°C)
ID 002:HB0: Master configuration: Smart power
ID 002:LB: Master MemberID Code
ID 003:HB0: Slave configuration: DHW present
ID 003:HB1: Slave configuration: Control type
ID 003:HB2: Slave configuration: Cooling configuration
ID 003:HB3: Slave configuration: DHW configuration
ID 003:HB5: Slave configuration: CH2 present
ID 003:HB6: Slave configuration: Remote water filling function
ID 003:HB7: Heat/cool mode control
ID 003:LB: Slave MemberID Code
ID 005:HB0: Service request
ID 005:HB1: Lockout-reset
ID 005:HB2: Low water pressure
ID 005:HB3: Gas/flame fault
ID 005:HB4: Air pressure fault
ID 005:HB5: Water over-temperature
ID 005:LB: OEM fault code
ID 006:HB0: Remote boiler parameter transfer-enable: DHW setpoint
ID 006:HB1: Remote boiler parameter transfer-enable: max. CH setpoint
ID 006:LB0: Remote boiler parameter read/write: DHW setpoint
ID 006:LB1: Remote boiler parameter read/write: max. CH setpoint
ID 007: Cooling control signal (%)
ID 010: Number of Transparent-Slave-Parameters supported by slave
ID 012: Size of Fault-History-Buffer supported by slave
ID 013: Index number / Value of referred-to fault-history buffer entry
ID 015: Maximum boiler capacity (kW) / Minimum boiler modulation level(%)
ID 017: Relative Modulation Level (%)
ID 018: Water pressure in CH circuit (bar)
ID 019: Water flow rate in DHW circuit. (litres/minute)
ID 025: Boiler flow water temperature (°C)
ID 026: DHW temperature (°C)
ID 027: Outside temperature (°C)
ID 028: Return water temperature (°C)
ID 029: Solar storage temperature (°C)
ID 030: Solar collector temperature (°C)
ID 031: Flow water temperature CH2 circuit (°C)
ID 032: Domestic hot water temperature 2 (°C)
ID 033: Boiler exhaust temperature (°C)
ID 034: Boiler heat exchanger temperature (°C)
ID 035: Boiler fan speed Setpoint and actual value
ID 036: Electrical current through burner flame [µA]
ID 038: Relative Humidity
ID 048: DHW Setpoint upper & lower bounds for adjustment (°C)
ID 049: Max CH water Setpoint upper & lower bounds for adjustment (°C)
ID 056: DHW Setpoint (°C) (Remote parameter 1)
ID 057: Max CH water Setpoint (°C) (Remote parameters 2)
ID 070:HB0: Master status ventilation / heat-recovery: Ventilation enable
ID 070:HB1: Master status ventilation / heat-recovery: Bypass postion
ID 070:HB2: Master status ventilation / heat-recovery: Bypass mode
ID 070:HB3: Master status ventilation / heat-recovery: Free ventilation mode
ID 070:LB0: Slave status ventilation / heat-recovery: Fault indication
ID 070:LB1: Slave status ventilation / heat-recovery: Ventilation mode
ID 070:LB2: Slave status ventilation / heat-recovery: Bypass status
ID 070:LB3: Slave status ventilation / heat-recovery: Bypass automatic status
ID 070:LB4: Slave status ventilation / heat-recovery: Free ventilation status
ID 070:LB6: Slave status ventilation / heat-recovery: Diagnostic indication
ID 072: Application-specific fault flags and OEM fault code ventilation / heat-recovery
ID 073: An OEM-specific diagnostic/service code for ventilation / heat-recovery system
ID 074:HB0: Slave Configuration ventilation / heat-recovery: System type
ID 074:HB1: Slave Configuration ventilation / heat-recovery: Bypass
ID 074:HB2: Slave Configuration ventilation / heat-recovery: Speed control
ID 074:LB: Slave MemberID Code ventilation / heat-recovery
ID 075: The implemented version of the OpenTherm Protocol Specification in the ventilation / heat-recovery system
ID 076: Ventilation / heat-recovery product version number and type
ID 077: Relative ventilation (0-100%)
ID 078: Relative humidity exhaust air (0-100%)
ID 079: CO2 level exhaust air (0-2000 ppm)
ID 080: Supply inlet temperature (°C)
ID 081: Supply outlet temperature (°C)
ID 082: mExhaust inlet temperature (°C)
ID 083: Exhaust outlet temperature (°C)
ID 084: Exhaust fan speed in rpm
ID 085: Supply fan speed in rpm
ID 086:HB0: Remote ventilation / heat-recovery parameter transfer-enable: Nominal ventilation value
ID 086:LB0: Remote ventilation / heat-recovery parameter read/write : Nominal ventilation value
ID 087: Nominal relative value for ventilation (0-100 %)
ID 088: Number of Transparent-Slave-Parameters supported by TSP's ventilation / heat-recovery
ID 089: Index number / Value of referred-to transparent TSP's ventilation / heat-recovery parameter
ID 090: Size of Fault-History-Buffer supported by ventilation / heat-recovery
ID 091: Index number / Value of referred-to fault-history buffer entry ventilation / heat-recovery
ID 093: Brand Index / Slave Brand name
ID 094: Brand Version Index / Slave product type/version
ID 095: Brand Serial Number index / Slave product serialnumber
ID 099: perating Mode HC1, HC2/ Operating Mode DHW
ID 100: Function of manual and program changes in master and remote room Setpoint
ID 101:HB012: Master Solar Storage: Solar mode
ID 101:LB0: Slave Solar Storage: Fault indication
ID 101:LB123: Slave Solar Storage: Solar mode status
ID 101:LB45: Slave Solar Storage: Solar status
ID 102: Application-specific fault flags and OEM fault code Solar Storage
ID 103:HB0: Slave Configuration Solar Storage: System type
ID 103:LB: Slave MemberID Code Solar Storage
ID 104: Solar Storage product version number and type
ID 105: Number of Transparent-Slave-Parameters supported by TSP's Solar Storage
ID 106: Index number / Value of referred-to transparent TSP's Solar Storage parameter
ID 107: Size of Fault-History-Buffer supported by Solar Storage
ID 108: Index number / Value of referred-to fault-history buffer entry Solar Stor
ID 109: Electricity producer starts
ID 110: Electricity producer hours
ID 111: Electricity production
ID 112: Cumulativ Electricity production
ID 113: Number of un-successful burner starts
ID 114: Number of times flame signal was too low
ID 115: OEM-specific diagnostic/service code
ID 116: Number of succesful starts burner
ID 117: Number of starts CH pump
ID 118: Number of starts DHW pump/valve
ID 119: Number of starts burner during DHW mode
ID 120: Number of hours that burner is in operation (i.e. flame on)
ID 121: Number of hours that CH pump has been running
ID 122: Number of hours that DHW pump has been running or DHW valve has been opened
ID 123: Number of hours that burner is in operation during DHW mode
ID 124 : The implemented version of the OpenTherm Protocol Specification in the master
ID 125: The implemented version of the OpenTherm Protocol Specification in the slave
ID 126: Master product version number and type
ID 127: Slave product version number and type