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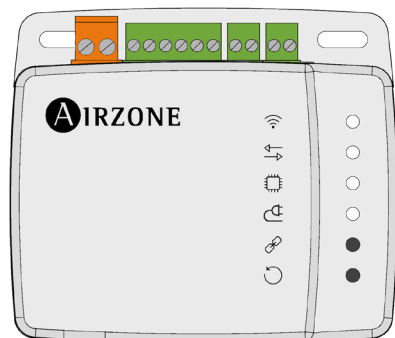
Handbuch zur Integration

Aidoo Pro BACnet

Panasonic

Für PAW-AZAC-BAC-1 und PAW-AZRC-BAC-1

[Für AZAI6WSPPN0 und AZAI6WSPPN1]



AIRZONE

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Umweltrichtlinie

UMWELTRICHTLINIE



Diese Anlage darf nicht mit dem Hausmüll entsorgt werden. Elektro- und Elektronikprodukte enthalten Stoffe, die umweltschädlich sein können, wenn sie nicht sachgemäß behandelt werden. Das Symbol der durchgestrichenen Mülltonne weist auf getrennte Abholung von Elektrogeräten hin und unterscheidet sich vom übrigen Siedlungsabfall. Im Sinne eines ordnungsgemäßen Abfallmanagements müssen sie am Ende ihrer Nutzungsdauer zu den vorgesehenen Sammelstellen gebracht werden.

Die Bestandteile sind recyclingfähig. Beachten Sie deshalb die geltenden Bestimmungen zum Umweltschutz.

Bei Ersatz müssen Sie die Anlage an Ihren Händler zurückgeben, oder an einer speziellen Sammelstelle abliefern.

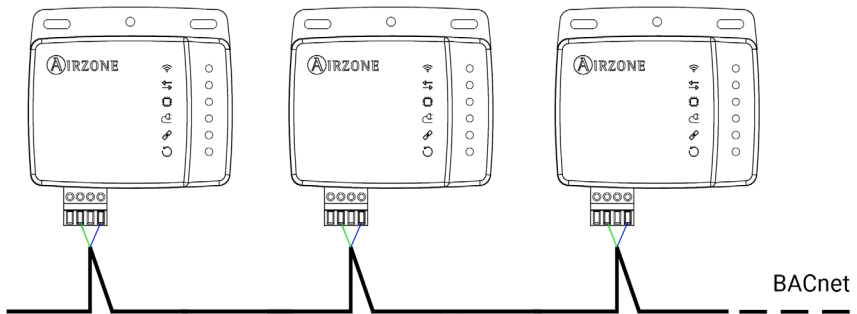
Zu widerhandlungen unterliegen Sanktionen und Maßnahmen, die im Umweltschutzrecht festgelegt sind.

Kommunikations-Port RS-485

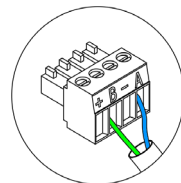
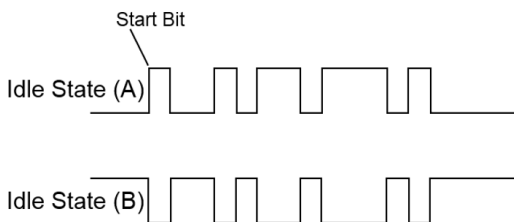
Die RS-485, auch als EIA-485 bezeichnet, ist ein Bus-Kommunikationsstandard.

Integrationsbus	
Geschwindigkeit des Kommunikations-Ports	300 bis 115200 bps
Kommunikation	Half Duplex
Framelänge	8 Bits
Stoppbit	1 Bit
Flusskontrolle	Keine
Parität	Gerade

ANSCHLUSS



Für den ordnungsgemäßen Betrieb der Airzone-Systeme muss überprüft werden, dass nur die Kommunikationskabel (grün-blau) an jeder Endeinrichtung der jeweiligen Haustechnikbusse angeschlossen sind. Befestigen Sie die Kabel mithilfe der Schrauben an den verschiedenen Klemmen und achten Sie auf den Farbcode.



A Blau
B Grün

BACnet-Protokoll

Das Aidoo Pro ermöglicht die Steuerung aller Stellgrößen der Airzone-Systeme über ein Gebäudemanagementsystem (Building Management System - BMS). Das Gerät verwendet ein offenes Standardprotokoll, das auf dem ASHRAE-Standard 135 basiert und folgende Kompatibilitäten bietet:

- BACnet (ANSI/ASHRAE-135)
- BACnet MS/TP

Das Aidoo Pro ist ein Plug&Play-Gerät für Airzone-Systeme, mit dem folgende Stellgrößen gesteuert und überwacht werden können:

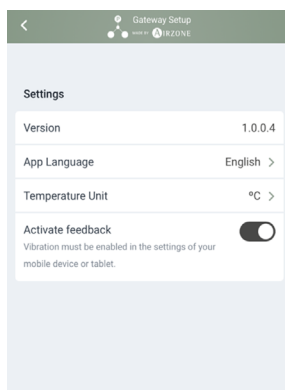
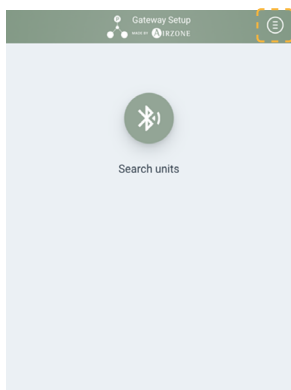
- Ein-/Ausschalten
- Raumtemperatur
- Solltemperatur
- Status des Betriebsmodus
- Status und Drehzahl des Gebläses

Gateway Setup for Panasonic

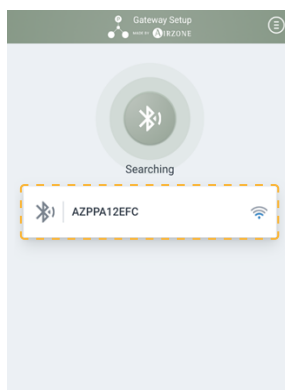
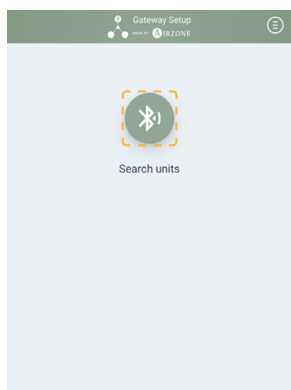
NETZWERKEINSTELLUNGEN

Auf dem Hauptbildschirm der App „Gateway Setup for Panasonic“ können Sie durch Drücken auf die Taste *Konfiguration* die Arbeitssprache der Anwendung sowie die Einheit für die Temperatur auswählen.

- **Version.** Gibt die Version der Anwendung an.
- **Sprache.** Die App ist in 9 Sprachen verfügbar (Deutsch, Griechisch, Englisch, Spanisch, Französisch, Italienisch, Polnisch, Portugiesisch, Französisch, Deutsch, Polnisch, Portugiesisch und Türkisch).
- **Einheiten.** Celsius (°C) oder Fahrenheit (°F).
- **Feedback aktiv.** Diese Funktion setzt voraus, dass die Vibration des Geräts aktiviert ist.



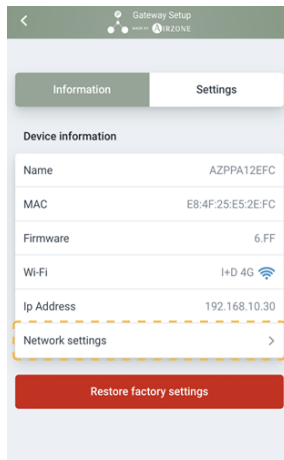
Zurück auf dem Hauptbildschirm können Sie durch Drücken auf das *Bluetooth*-Symbol die Suche nach Geräten in der Nähe starten. Wählen Sie Ihre „Aidoo Pro BACnet Panasonic“, um fortzufahren.



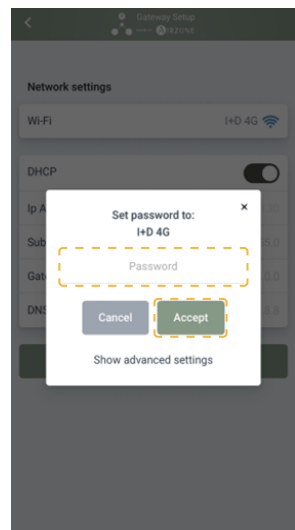
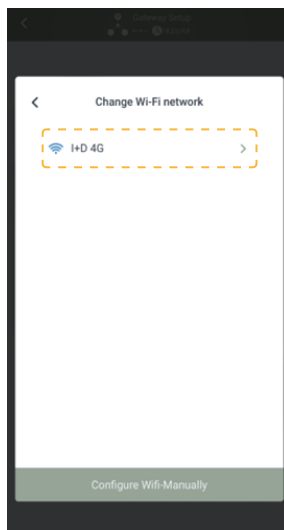
Sobald das Gerät ausgewählt ist, erscheint das Informationsmenü.

- **Name.** Name des Geräts.
- **MAC.** MAC-Adresse des Geräts.
- **Firmware.** Zeigt die Geräteversion an.
- **WLAN.** Mit dem Gerät verknüpftes Netzwerk.
- **IP-Adresse.** Zeigt die IP-Adresse des Geräts an.
- **Netzwerkeinstellungen.** Ermöglicht die Konfiguration des Geräts.

Durch Klicken auf die Schaltfläche *Reset auf Werkseinstellungen* werden die Standardwerte wiederhergestellt.



Im Untermenü *Netzwerkeinstellungen* können Sie bei Bedarf das Wi-Fi-Netzwerk ändern.



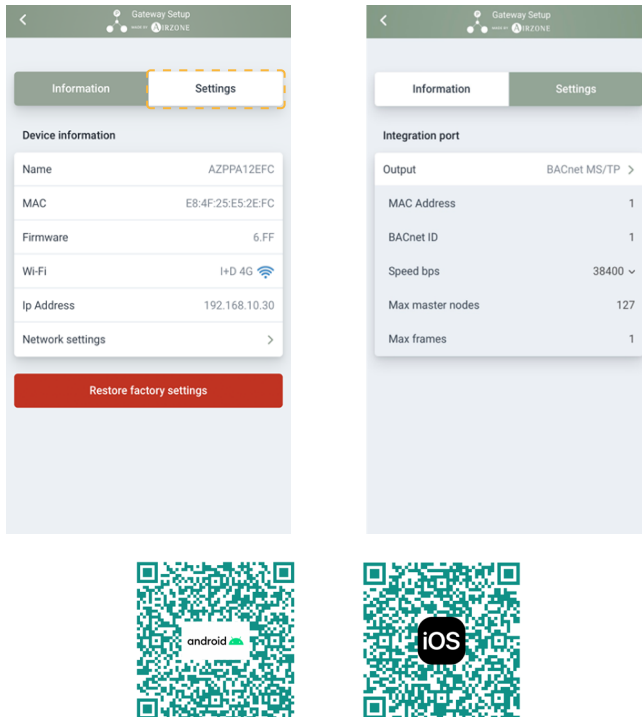
EINSTELLUNGEN BACNET MS/TP

Über das Konfigurationsmenü können Sie folgende Geräteparameter ändern:

- **MAC-Adresse.** Wert zwischen 1 und 255.
- **BACnet ID.** Wert zwischen 1 und 255.
- **Geschwindigkeit bps.** Es stehen 11 Geschwindigkeiten zur Verfügung (300, 600, 1200, 2400, 4800, 9600, 19200 (Standard), 38400, 57600, 76800 und 115200 bps).
- **Maximale Master-Knoten.** Wert zwischen 1 und 127.
- **Maximale Frames.** Wert zwischen 1 und 127.

Einstellen der Slave-Adresse im Aidoo Pro BACnet Panasonic Gerät

Aidoo ist ein **BACnet-Slave-Gerät**, daher ist es notwendig, seine Adresse anzugeben. Dazu müssen Sie, nachdem Sie Ihr Aidoo über die App „Gateway Setup for Panasonic“ (verfügbar für iOS und Android) gekoppelt haben, das Konfigurationsmenü aufrufen, in dem der Ausgang als BACnet MS/TP konfiguriert ist, und die Slave-Adresse einstellen.



Download der App Gateway Setup for Panasonic

BACnet-Objekte

ART DER UNTERSTÜTZTEN OBJEKTE

Die vom Aidoo Pro unterstützten Steuerungs- und Überwachungsobjekte werden den durch BACnet definierten Standard-Objektypen zugewiesen.

Object type		Compatible	Airzone management point
Accumulator	23		
Analog-Input	0	√	Room temperature
Analog-Output	1		
Analog-Value	2	√	Set point temperature
Averaging	18		
Binary-Input	3	√	Communication with IU
Binary-Output	4	√	Auxiliary heat
Binary-Value	5	√	Switching on and off
Calendar	6		
Command	7		
Device	8		
Event-Enrollment	9		
File	10		
Group	11		
Life-Safety-Point	21		
Life-Safety-Zone	22		
Loop	12		
Multistate-Input	13		
Multistate-Output	14	√	Operation mode (configuration)
Multistate-Value	19	√	Fancoil speed (configuration)
Notification-Class	15		
Program	16		
Schedule	17		
Trend-Log	20		

OBJEKTLISTE

Nachstehend finden Sie die vollständige Liste der auf Airzone Pro verfügbaren Objekte. Die Verfügbarkeit der Kommunikationsobjekte hängt von der Konfiguration des Geräts und der Art der Anlage ab.

Die Verfügbarkeit des Kommunikationsobjekts des Aidoo-Geräts wird über den Parameter „out of service“ (außer Betrieb) der einzelnen Kommunikationsobjekte unabhängig davon angezeigt, ob das Objekt im System verfügbar ist oder nicht.

Das Kommunikationsobjekt weist nur dann die Werte *correct/valid* (richtig/gültig) auf, wenn „out of service“ *FALSE* (FALSCH) ist.

Aidoo Pro BACnet Panasonic RAC Domestic (PAW-AZAC-BAC-1 [AZAI6WSPPN0])

Object type	Registration	Description	Values	Read (R) Write (W)
Binary-value	0	Switching the zone	0 → OFF 1 → ON	R & W
Binary-input	0	IU communication	0 → No communication 1 → IU ready	R
Binary-input	1	IU errors	0 → No error 1 → IU with error	R
Binary-input	2	Digital input	0 → Inactive 1 → Active	R
Binary-output	0	Auxiliary heat	0 → Inactive 1 → Active	R
Analog-value	0	Set point	Set point	R & W
Analog-value	1	Localtemp	Work temperature	R
Multi-state-value	0	Modes	1 → Auto 2 → Cool 3 → Heat 5 → Dry	R & W
	1	Speed	0; 8 → Auto 1 → Speed 1 2 → Speed 2 3 → Speed 3 4 → Speed 4 5 → Speed 5	R & W
	2	Slats	1-5 → Position 9 → Auto	R & W
Character-string-value	1	Errors	IU error codes	R

Aidoo Pro BACnet Panasonic PACi (PAW-AZRC-BAC-1 [AZAI6WSPPN1])

Object type	Registration	Description	Values	Read (R) Write (W)
Binary-value	0	Switching the zone	0 → OFF 1 → ON	R & W
Binary-input	0	IU communication	0 → No communication 1 → IU ready	R
Binary-input	1	IU errors	0 → No error 1 → IU with error	R
Binary-input	2	Digital input	0 → Inactive 1 → Active	R
Binary-output	0	Auxiliary heat	0 → Inactive 1 → Active	R
Analog-value	0	Set point	Set point	R & W
Analog-value	1	Localtemp	Work temperature	R
Multi-state-value	0	Modes	1 → Auto 2 → Cool 3 → Heat 4 → Fan 5 → Dry	R & W
	1	Speed ⁽¹⁾	0; 8 → Auto 1 → Speed 1 2 → Speed 2 3 → Speed 3 4 → Speed 4* 5 → Speed 5*	R & W
	2	Slats ⁽²⁾	1-5 → Position 10 → Swing	R & W
Character-string-value	1	Errors	IU error codes	R

*(1) Die Geschwindigkeit hängt von Ihrer Klimaanlage ab. *Die Geschwindigkeiten 4 und 5 sind möglicherweise nicht bei allen Modellen verfügbar.*

(2) Wenn im Gerät „Stop-Lamellen“ gewählt ist, wird in diesem Register die Position 0 dargestellt, obwohl das Gerät intern in „Stop-Lamellen“ bleibt. Es ist nicht möglich, ein „Stop-Lamellen“ an das Gerät zu senden.

DETAILLIERTE BESCHREIBUNG DER OBJEKTE

Gültig für alle Objekte

Wenn die Kommunikation mit dem Innengerät normal verläuft, kann eine Kommunikationsverbindung zwischen dem Aidoo Pro und dem Innengerät hergestellt werden. So kann über das Gebäudemanagementsystem (Building Management System - BMS) auf alle Objekte des Airzone-Geräts zugegriffen werden.

Wenn die Kommunikation zwischen dem Aidoo Pro und dem System gestört ist oder die mit dem Kommunikationsobjekt verbundene Datenanfrage nicht innerhalb des Airzone-Systems liegt, dann wird die Objekteigenschaft „Out of service“ (außer Betrieb) aktiviert.

Ein-/Ausschalten

Das Aidoo Pro meldet den Status jeder einzelnen Zone zurück. Über die BACnet-Plattform kann jede Zone als eingeschaltet oder ausgeschaltet konfiguriert werden. Es handelt sich um Lese- und Schreibobjekte.

Kommunikation mit IU

Wenn das Innengerät die Kommunikation verliert, wird das Aidoo Pro dies an BACnet melden. Dieses Objekt ist ein Nur-Lese-Objekt.

IU-Fehler

Wenn das Innengerät einen Fehler ausgibt, wird das Aidoo Pro dies an die BACnet-Plattform melden. Dieses Objekt ist ein Lese-Objekt.

Digitaleingang

Das Aidoo Pro meldet den Status des Digitaleingangs. Dieses Objekt ist ein Nur-Lese-Objekt.

Zusatzheizung

Das Aidoo Pro meldet den Status der Zusatzheizung. Dieses Objekt ist ein Nur-Lese-Objekt.

Solltemperatur

Die Solltemperatur der Inneneinheit und der Istwert werden an das BACnet-System gemeldet und können von diesem geändert werden. Es handelt sich um einen Lese- und Schreibparameter.

Arbeitstemperatur

Die BACnet-Plattform kann die Arbeitstemperatur jeder Zone auslesen. Es handelt sich um ein Nur-Lese-Objekt.

Betriebsmodus

Das Aidoo Pro meldet den Betriebsmodus des Systems oder der einzelnen Zonen (je nach angeschlossener Anlage), dargestellt durch eine Nummer. Es handelt sich um Lese- und Schreibobjekte. Die Betriebsmodi sind:

- 1 → Auto
- 2 → Kühlen
- 3 → Heizen
- 4 → Lüften
- 5 → Trocknen

Geschwindigkeit

Dieser Parameter bezieht sich auf die Drehzahl des Gerätegebläses. Das Aidoo Pro meldet die Luftgeschwindigkeit des Systems oder der einzelnen Zonen (je nach angeschlossener Anlage), dargestellt durch eine Nummer. Es handelt sich um Lese- und Schreibobjekte.

Lamellen

Das Aidoo Pro meldet die Lamellenstellung in Form einer Zahl. Es handelt sich um Lese- und Schreibobjekte. Die Stellungen werden mit 1 bis 5 bezeichnet, 9 ist der Autobetrieb und 10 ist der Schwingbetrieb.

Fehler

Wenn das Innengerät einen Fehler ausgibt, wird das Aidoo Pro dies an die BACnet-Plattform melden. Dieses Objekt ist ein Lese-Objekt.

Fehlercodes

AIDOO PRO BACNET PANASONIC RAC DOMESTIC (PAW-AZAC-BAC-1 [AZAI6WSPPN0])

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
H00	No memory of failure	-	Normal operation	-	-
H11	Indoor / Outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor / Outdoor communication not establish	- Indoor / Outdoor wire terminal - Indoor / Outdoor PCB - Indoor / Outdoor connection wire
H12	Indoor unit capacity unmatched	90s after power supply	-	Total indoor capability more than maximum limit or less than minimum limit, or number of indoor unit less than two	- Indoor / Outdoor connection wire - Indoor / Outdoor PCB - Specification and combination table in catalogue
H14	Indoor intake air temperature sensor abnormality	Continuous for 5s	-	Indoor intake air temperature sensor open or short circuit	Indoor intake air temperature sensor lead wire and connector
H15	Compressor temperature sensor abnormality	Continuous for 5s	-	Compressor temperature sensor open or short circuit	Compressor temperature sensor lead wire and connector
H16	Outdoor current transformer (CT) abnormality	-	-	Current transformer faulty or compressor faulty	Outdoor PCB faulty or compressor faulty
H19	Indoor fan motor mechanism lock	Continuous happen for 7 times	-	Indoor fan motor lock or feedback abnormal	- Fan motor lead wire and connector - Fan motor lock or block
H23	Indoor heat exchanger temperature sensor abnormality	Continuous for 5s	-	Indoor heat exchanger temperature sensor open or short circuit	Indoor heat exchanger temperature sensor lead wire and connector
H24	Indoor heat exchanger temperature sensor 2 abnormality	Continuous for 5s	-	Indoor heat exchanger temperature sensor 2 open or short circuit	Indoor heat exchanger temperature sensor 2 lead wire and connector
H25	Indoor ion device abnormality	Port is ON for 10s during ion device off	-	-	Ion device PCB
H27	Outdoor air temperature sensor abnormality	Continuous for 5s	-	Outdoor air temperature sensor open or short circuit	Outdoor air temperature sensor lead wire and connector

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
H28	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	-	Outdoor heat exchanger temperature sensor 1 open or short circuit	· Outdoor heat exchanger temperature sensor 1 lead wire and connector
H30	Outdoor discharge pipe temperature sensor abnormality	Continuous for 5s	-	Outdoor discharge pipe temperature sensor open or short circuit	· Outdoor discharge pipe temperature sensor lead wire and connector
H32	Outdoor heat exchanger temperature sensor 2 abnormality	Continuous for 5s	-	Outdoor heat exchanger temperature sensor 2 open or short circuit	· Outdoor heat exchanger temperature sensor 2 lead wire and connector
H33	Indoor / Outdoor misconnection abnormality	-	-	Indoor and outdoor rated voltage different	· Indoor and outdoor units check
H34	Outdoor heat sink temperature sensor abnormality	Continuous for 2s	-	Outdoor heat sink temperature sensor open or short circuit	· Outdoor heat sink sensor
H36	Outdoor gas pipe temperature sensor abnormality	Continuous for 5s	Heating protection operation only	Outdoor gas pipe temperature sensor open or short circuit	· Outdoor gas pipe temperature sensor lead wire and connector
H37	Outdoor liquid pipe temperature sensor abnormality	Continuous for 5s	Cooling protection operation only	Outdoor liquid pipe temperature sensor open or short circuit	· Outdoor liquid pipe temperature sensor lead wire and connector
H38	Indoor / Outdoor mismatch (brand code)	-	-	Brand code not match	· Check indoor unit and outdoor unit
H39	Abnormal indoor operating unit or standby units	3 times happen within 40 minutes	-	Wrong wiring and connection pipe, expansion valve abnormality, indoor heat exchanger sensor open circuit	· Check indoor / outdoor connection wire and connection pipe · Indoor heat exchanger sensor lead wire and connector · Expansion valve and lead wire and connector
H41	Abnormal wiring or piping connection	-	-	Wrong wiring and connecting pipe, expansion valve abnormality	· Check indoor / outdoor connection wire and connection pipe · Expansion valve and lead wire and connector
H59	ECONAVI sensor abnormality	Continuous for 25s	-	ECONAVI sensor open or short circuit	· ECONAVI sensor (defective or disconnected) · ECONAVI PCB
H64	Outdoor high pressure sensor abnormality	Continuous for 1 minute	-	High pressure sensor open circuit during compressor stop	· High pressure sensor · Lead wire and connector

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
H67	Nanoe abnormality	Nanoe stop for 5 minutes for 3 times	-	Nanoe faulty	· PCB · Nanoe system · High voltage
H70	Light sensor abnormality	Continuous for 24 hours, 15 days	-	Light sensor open or short circuit	· Light sensor (defective or disconnected)
H85	Abnormal communication between indoor & wireless LAN module	Communication error for 10 minutes for 3 times	-	Wireless LAN LED Off or timer LED blinking	· Network adaptor · Router · Network coverage
H97	Outdoor fan motor mechanism lock	2 times happen within 30 minutes	-	Outdoor fan motor lock or feedback abnormal	· Outdoor fan motor lead wire and connector · Fan motor lock or block
H98	Indoor high pressure protection	-	-	Indoor high pressure protection (Heating)	· Check indoor heat exchanger · Air filter dirty · Air circulation short circuit
H99	Indoor operating unit freeze protection	-	-	Indoor freeze protection (Cooling)	· Check indoor heat exchanger · Air filter dirty · Air circulation short circuit
F11	4-way valve switching abnormality	4 times happen within 30 minutes	-	4-way valve switching abnormal	· 4-way valve · Lead wire and connector
F17	Indoor standby units freezing abnormality	3 times happen within 40 minutes	-	Wrong wiring and connecting pipe, expansion valve leakage, indoor heat exchanger sensor open circuit	· Checker indoor / outdoor connection wire and pipe · Indoor heat exchanger sensor lead wire and connector · Expansion valve lead wire and connector
F90	Power factor correction (PFC) circuit protection	4 times happen within 10 minutes	-	Power factor correction circuit abnormal	· Outdoor PCB faulty
F91	Refrigeration cycle abnormality	2 times happen within 20 minutes	-	Refrigeration cycle abnormal	· Insufficient refrigerant or valve close
F93	Compressor abnormal revolution	4 times happen within 20 minutes	-	Compressor abnormal revolution	· Power transistor module faulty or compressor lock
F94	Compressor discharge overshoot protection	4 times happen within 30 minutes	-	Compressor discharge pressure overshoot	· Check refrigeration system
F95	Outdoor cooling high pressure protection	4 times happen within 20 minutes	-	Cooling high pressure protection	· Check refrigeration system · Outdoor air circuit

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
F96	Power transistor module overheating protection	4 times happen within 30 minutes	-	Power transistor module overheat	· PCB faulty · Outdoor air circuit (fan motor)
F97	Compressor overheating protection	3 times happen within 30 minutes	-	Compressor overheat	· Insufficient refrigerant
F98	Total running current protection	3 times happen within 20 minutes	-	Total current protection	· Check refrigeration system · Power source or compressor lock
F99	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	-	Power transistor module current protection	· Power transistor module faulty or compressor lock

AIDOO PRO BACNET PANASONIC PACI (PAW-AZRC-BAC-1 [AZAI6WSPPN1])

ECO G-Geräte

Diagnosis display	Abnormality / Protection control	Problem
A01	Engine oil pressure error	-
A02	Engine oil error	-
A03	Engine high-revolution error	-
A04	Engine low-revolution error	-
A05	Ignition source error	-
A06	Engine start failure	-
A07	Fuel gas valve error	-
A08	Engine stall	-
A10	Exhaust gas temperature high	-
A12	Throttle	Stepping motor failure
A14	Engine oil pressure switch	-
A15	Start power source output short circuit	-
A16	Starter lock	-
A17	CT error	Starter current detection failure
A19	Low coolant temperature	-
A20	High coolant temperature	-
A21	Coolant level error	-
A22	Coolant pump error	-
A23	Crankshaft angle sensor	-
A24	Camshaft angle sensor error	-
A25	Clutch error	-
A26	Flameout error	-
A27	Catalyst temperature error	-
A30	Low fuel gas pressure error	-
E01	Remote controller receive failure	-
E02	Remote controller transmission failure	-
E03	Indoor unit receive failure from remote controller (central)	-
E04	Indoor unit receive failure from outdoor unit	-
E05	Indoor unit transmission failure to outdoor unit	-
E06	Outdoor unit receive failure from indoor unit	-
E07	Outdoor unit transmission failure to indoor unit	-

Diagnosis display	Abnormality / Protection control	Problem
E08	Duplicated indoor unit address setting	-
E09	Multiple main remote controller units set	-
E11	Indoor unit receive failure from signal output board	-
E12	Automatic address setting in progress	-
E13	Indoor unit transmission failure to remote controller	-
E15	Automatic address alarm (too few units)	-
E16	Automatic address alarm (too many units)	-
E18	Group control wiring communication failure	-
E20	No indoor unit in automatic address setting	-
E21	Outdoor main board failure	-
E22	Outdoor main board sensor error	-
E24	Communication failure between outdoor units	-
E26	Inconsistencies in number of outdoor units	-
E31	Communication failure between units	-
F01	Indoor heat exchanger inlet temperature sensor (E1)	-
F02	Water heat exchanger anti-freeze sensor (E2)	-
F03	Water heat exchanger refrigerant outlet temperature sensor (E3)	-
F04	Compressor outlet temperature sensor	-
F06	Outdoor heat exchanger inlet temperature sensor / Outdoor heat exchanger 2 inlet temperature sensor (3WAY only)	-
F08	Outside air temperature sensor	-
F10	Indoor unit intake temperature sensor / Hot and cold water inlet sensor	-
F11	Indoor unit discharge temperature sensor / Hot and cold water outlet sensor	-
F12	Compressor inlet temperature sensor	-
F13	Coolant temperature sensor	-
F16	Compressor inlet / outlet pressure sensor error	-
F17	Hot water outlet temperature sensor	-
F18	Exhaust gas temperature sensor	-
F20	Clutch coil temperature sensor error	-
F21	Clutch coil 2 temperature sensor error	-
F29	Indoor nonvolatile memory (EEPROM) error	-
F31	Outdoor nonvolatile memory (EEPROM) error	-
H07	Compressor oil depletion error	-
L02	Inconsistencise in indoor / outdoor unit models	-
L03	Multiple main units set for group control	-

Diagnosis display	Abnormality / Protection control	Problem
L04	Duplicate system (outdoor unit) address setting	-
L05	Duplicate indoor unit priority setting	-
L06	Duplicate indoor unit priority setting	-
L07	Group control wire present for individual-control indoor unit	-
L08	Indoor unit address not set	-
L09	Indoor unit capacity not set	-
L10	Outdoor unit capacity not set	-
L13	Indoor unit model type setting failure	-
L15	Defective pairing of indoor units	-
L16	Faulty water heat exchanger unit parallel array addresses	-
L19	Duplicated water heat exchanger unit parallel arrays addresses	-
L21	Gas type setting failure	-
P01	Indoor fan error / Indoor unit fan rpm error	-
P03	High compressor discharge temperature	-
P04	Refrigerant high-pressure switch operation	-
P05	Power source error	-
P09	Indoor unit ceiling panel connector connection failure	-
P10	Indoor unit float switch operation	-
P11	Indoor unit drain pump error / Water heat exchanger unit anti-icing sensor error	-
P12	Indoor DC fan error	-
P13	Refrigerant circuit error (W MULTI / Models with suction bypass valve (85kW type) / Refrigerant circuit error (3 Way))	-
P15	Complete refrigerant gas depletion	-
P18	Bypass valve error	-
P19	Four-Way valve lock error (no detected 3WAY MULTI)	-
P20	Refrigerant high-pressure error	-
P22	Outdoor unit fan error	-
P23	Water heat exchanger unit interlock error (for only water heat exchanger unit)	-
P26	Clutch connection error	-
P30	Group control's sub unit error	-
P31	Group control error	-

ECOi EX 2 Way-Geräte

Diagnosis display	Abnormality / Protection control	Problem
E06	Outdoor unit receiving failure from indoor unit	-
E12	Prohibit starting auto address setting	-
E15	Auto address alarm (a small number of indoor units)	-
E16	Auto address alarm (a large number of indoor units)	-
E20	No indoor unit during auto address setting	-
E21	Receiving failure of main system from sub system when link wiring is used for outdoor units	-
E22	Receiving failure of sub system from main system when link wiring is used for outdoor units	-
E24	Receiving failure of relay control unit from outdoor unit(s)	-
E25	Failure of outdoor unit address setting (duplicative)	-
E26	Inconsistencies in number of outdoor units	-
E29	Failure of outdoor unit to receive relay control unit	-
E30	Failure of transferring outdoor unit serial	-
E31	Wiring error between the P.C. board ([L-Pow], [HIC] wire)	-
F04	Compressor 1 discharge temperature sensor abnormal [DISCH1]	-
F05	Compressor 2 discharge temperature sensor abnormal [DISCH2]	-
F06	Outdoor unit heat exchanger 1 gas (inlet) temperature sensor abnormal [EXG1]	-
F07	Outdoor unit heat exchanger 1 liquid (outlet) temperature sensor abnormal [EXL1]	-
F08	Outdoor temperature sensor abnormal [TO]	-
F12	Compressor inlet temperature sensor abnormal [SCT]	-
F14	Supercooling gas temperature sensor abnormal [SCG]	-
F16	High pressure sensor abnormal, high-load [HPS]	-
F17	Low pressure sensor abnormal [LPS]	-
F23	Outdoor unit heat exchanger 2 gas (inlet) temperature sensor abnormal [EXG2]	-
F24	Outdoor unit heat exchanger 2 liquid (outlet) temperature sensor abnormal [EXL2]	-
F31	Outdoor unit nonvolatile memory (EEPROM) error	-
H01	Compressor 1 abnormal current values	Overcurrent
H03	Compressor 1 CT sensor disconnected, short-circuit	-
H05	Compressor 1 discharge temperature sensor disconnected	-
H06	Low pressure abnormal lowering	-
H07	Oil loss - error	-
H08	Oil sensor (connection) error 1	-

Diagnosis display	Abnormality / Protection control	Problem
H11	Compressor 2 abnormal current values	Overcurrent
H13	Compressor 2 CT sensor disconnected, short-circuit	-
H15	Compressor 2 discharge temperature sensor disconnected	-
H21	Compressor 2 HIC alarm	-
H27	Oil sensor (connection) error 2	-
H31	Compressor 1 HIC alarm	-
L04	Outdoor unit address settings duplicated	-
L05	Indoor unit priority duplicated (for priority indoor)	-
L06	Indoor unit priority duplicated (not for priority indoor) and outdoor unit	-
L10	Outdoor unit capacity settings not made	-
L17	Inconsistencies in outdoor unit models	-
L18	4-way valve coil disconnected, line disconnected	-
P03	Compressor 1 discharge temperature error	-
P04	Actuation of high pressure switch	-
P05	Compressor 1 open-phase detection	-
P11	Cooling water freeze	Chiller
P14	Actuation of O2 sensor	-
P15	Compressor 2 open-phase detection	-
P16	Compressor 1 secondary overcurrent	-
P17	Compressor 2 discharge temperature error	-
P19	Compressor 2 start failure	Compressor lock / Compressor wiring open-phase / DCCT failure
P20	High load	Forgot to open valves
P22	Outdoor unit fan1 failure	IPM damage / Overcurrent / Inverter failure / DC fan lock / Hole IC open-phase
P23	Inter lock not cancellation	Chiller
P24	Outdoor unit fan2 failure	IPM damage / Overcurrent / Inverter failure / DC fan lock / Hole IC open-phase
P26	Compressor 2 secondary overcurrent	-
P29	Compressor 1 start failure	Compressor lock / Compressor wiring open-phase / DCCT failure

ECOi EX 3 Way-Geräte

Diagnosis display	Abnormality / Protection control	Problem
E06	Some indoor units do not respond to outdoor unit	-
E12	Auto address failed to start	-
E15	Fewer indoor units are found in auto addressing than the setting on outdoor PCB	-
E16	More indoor units are found in auto addressing than the setting on outdoor PCB	-
E20	No indoor unit responded in auto addressing	-
E24	No response from sub outdoor unit	-
E25	The outdoor unit address is duplicating	-
E26	The number of responding outdoor units does not match with the setting on the main outdoor unit	-
E29	No response from main outdoor unit	-
E31	Error in communication inside outdoor unit control box	-
F04	Compressor 1 discharge temperature sensor has failure (DISCH1)	-
F05	Compressor 2 discharge temperature sensor has failure (DISCH2)	-
F06	Outdoor unit heat exchanger 1 gas temperature sensor has failure (EXG1)	-
F07	Outdoor unit heat exchanger 1 liquid temperature sensor has failure (EXL1)	-
F08	Outdoor temperature sensor has failure (TO)	-
F12	Compressor inlet temperature sensor has failure (SCT)	-
F14	Subcooling heat exchanger temperature sensor has failure (SCG)	-
F16	High pressure sensor has failure (HPS)	-
F17	Low pressure sensor has failure (LPS)	-
F23	Outdoor unit heat exchanger 2 gas temperature sensor has failure (EXG2)	-
F24	Outdoor unit heat exchanger 2 liquid temperature sensor has failure (EXL2)	-
F31	EEPROM on outdoor unit PCB has failure	-
H01	Compressor 1 primary current is overcurrent	-
H03	Compressor 1 current sensor is disconnected or shorted	-
H05	Compressor 1 discharge temperature sensor is disconnected, shorted or misplaced	-
H06	Low pressure sensor value is too low	-
H07	Compressor or refrigerant circuit has low oil	-
H08	Compressor 1 oil temperature sensor has failure (OIL1)	-
H11	Compressor 2 primary current is overcurrent	-

Diagnosis display	Abnormality / Protection control	Problem
H13	Compressor 2 current sensor is disconnected or shorted	-
H15	Compressor 2 discharge temperature sensor is disconnected, shorted or misplaced	-
H21	Compressor 2 HIC has failure	HIC is overcurrent or overheat / VDC is undervoltag
H27	Compressor 2 oil temperature sensor has failure (OIL2)	-
H31	Compressor 1 HIC has failure	HIC is overcurrent or overheat / VDC is undervoltag
L04	Duplicate system address setting on outdoor units	-
L10	Capacity setting of outdoor unit is not correct	-
L11	Incorrect wiring of remote group control wiring (in case of shared solenoid valve)	-
L17	Model mismatch between outdoor units	-
P03	Compressor 1 discharge temperature is too high	-
P04	High pressure switch is activated	-
P05	Compressor 1 AC power supply has abnormal	-
P11	Cooling water freeze	-
P14	O2 sensor has activated	-
P15	Compressor 2 AC power supply has abnormal	-
P16	Compressor 1 secondary current is overcurrent	-
P17	Compressor 2 discharge temperature is too high	-
P19	Compressor 2 start failure	Compressor 2 is missing phase
P22	Outdoor unit fan motor has failure	-
P25	High pressure is out of compressor operating range	-
P26	Compressor 2 secondary current is overcurrent	-
P27	Low pressure is out of compressor operating range	-
P29	Compressor 1 start failure	Compressor 1 is missing phase

Mini ECOi-Geräte

Diagnosis display	Abnormality / Protection control	Problem
C17	Indoor unit does not respond to central control equipment	-
E01	Indoor unit does not respond to remote controller	-
E02	Remote controller is having error in sending serial communication signal	-
E03	Remote controller does not respond to indoor unit	-
E04	Outdoor unit does not respond to indoor unit	-
E06	Some indoor units does not respond to outdoor unit	-
E08	Indoor unit address is duplicating	-
E09	Two or more remote controllers are set as main on R1-R2 link	-
E12	Auto address failed to start	-
E14	Two or more indoor units are set as main, in the group controlled indoor units	-
E15	Fewer indoor units are found in auto addressing than the setting on outdoor PCB	-
E16	More indoor units are found in auto addressing than the setting on outdoor PCB	-
E18	No response from sub indoor to the main indoor unit in group control wiring	-
E20	No indoor unit responded in auto addressing	-
E31	Error in communication inside outdoor unit control box	-
F01	Indoor unit heat exchanger liquid temperature sensor has failure (E1)	-
F02	Indoor unit heat exchanger temperature sensor has failure (E2)	-
F03	Indoor unit heat exchanger gas temperature sensor has failure (E3)	-
F04	Compressor discharge temperature sensor has failure (DISCH)	-
F06	Outdoor unit heat exchanger gas temperature sensor has failure (EXG)	-
F07	Outdoor unit heat exchanger liquid temperature sensor has failure (EXL)	-
F08	Outdoor temperature sensor has failure (TO)	-
F10	Indoor suction air (room) temperature sensor has failure (TA)	-
F11	Indoor discharge air temperature sensor has failure (BL)	-
F12	Compressor inlet temperature sensor has failure (SCT)	-

Diagnosis display	Abnormality / Protection control	Problem
F14	Subcooling heat exchanger temperature sensor has failure (SCG)	-
F16	High pressure sensor has failure (HPS)	-
F17	Low pressure sensor has failure (LPS)	-
F29	EEPROM on indoor unit PCB has failure	-
F31	EEPROM on outdoor unit PCB has failure	-
H01	Compressor primary current is overcurrent	-
H02	PFC is overcurrent or VDC is overvoltage (single phase only)	-
H03	Compressor current sensor is disconnected or shorted	-
H05	Compressor discharge temperature sensor is disconnected, shorted or misplaced (DISCH)	-
H06	Low pressure sensor value is too low	-
H31	Compressor HIC has failure	HIC is overcurrent or overheat. VDC is undervoltage or overvoltage
L01	Indoor unit address setting has error	No main indoor unit in group control
L02	Indoor unit model does not match with the outdoor unit model (multi-split/mini-split)	-
L03	Two or more indoor units are set as main in group control	-
L04	Duplicate system address setting on outdoor units	-
L05	Two or more indoor units are set as priority indoor unit (priority indoor unit)	-
L06	Two or more indoor units are set as priority indoor unit (non-priority indoor unit)	-
L07	Group control wiring is detected for indoor unit set as individual control	-
L08	Indoor unit address is not set	-
L09	Capacity setting of indoor unit is not correct	-
L10	Capacity setting of outdoor unit is not correct	-
L13	Indoor unit model does not match with outdoor unit	-
L17	Model mismatch between outdoor units	-
L18	4-way valve has failure	-
P01	Thermal protector for indoor unit fan motor is activated	-
P03	Compressor discharge temperature is too high	-
P04	High pressure switch is activated	-
P05	AC power supply has abnormal	-
P09	Connection to the panel of indoor unit is not good	-

Diagnosis display	Abnormality / Protection control	Problem
P10	Float switch of drain pan safety is activated	-
P11	Drain pump failure or locked rotor	-
P12	Indoor unit fan inverter protection control is activated	-
P14	O2 sensor has activated	-
P16	Compressor secondary current is overcurrent	-
P20	Too high load in refrigerant circuit	-
P22	Outdoor unit fan motor has failure	-
P29	Compressor start failure	Compressor is missing phase or reverse phase
P31	Other indoor unit in group control has an alarm	-

Big PACi-Geräte

Diagnosis display	Abnormality / Protection control	Problem
E01	Remote controller reception error	-
E02	Remote controller transmission error	-
E03	Error in indoor unit receiving signal from remote controller (central)	-
E04	Error in indoor unit receiving signal from the outdoor unit	-
E05	Error in indoor unit transmitting signal to the outdoor unit	-
E06	Outdoor unit failed to receive serial communication signals from indoor unit	-
E08	Duplicate indoor unit address settings error	-
E09	More than one remote controller set to main error	-
E12	Automatic address setting start is prohibited while auto-address setting in progress	-
E14	Main unit duplication in simultaneous-operation multi control	Detected outdoor unit
E15	Automatic address alarm	The total capacity of indoor units is too low
E16	Automatic address alarm	The total capacity of indoor units is too high or the total number of indoor units is too many
E18	Faulty communication in group control wiring	-
E20	Connection problem of indoor/outdoor units	-
F04	Compressor discharge temperature sensor (TD) trouble	-
F06	Inlet temperature sensor (C1) in heat exchanger trouble	-
F07	Intermediate temperature sensor (C2) in heat exchanger trouble	-
F08	Outdoor air temperature sensor (TO) trouble	-
F12	Compressor inlet suction temperature sensor (TS) trouble	-
F31	Outdoor unit nonvolatile memory (EEPROM) trouble	-
H01	Primary (input) overcurrent detected	-
H02	PAM trouble	-
H03	Primary current CT sensor (current sensor) failure	-
H31	HIC trouble	-
L04	Outdoor unit address duplication	-
L10	Outdoor unit capacity not set or invalid	-
L13	Indoor unit type setting error	-
L18	4-way valve operation failure	-
P03	Compressor discharge temperature trouble	-

Diagnosis display	Abnormality / Protection control	Problem
P04	High pressure trouble	-
P05	AC power supply trouble	-
P13	Alarm valve open	-
P14	O2 sensor detect	-
P15	Insufficient gas level detected	-
P16	Compressor overcurrent trouble	-
P22	Outdoor unit fan motor trouble	-
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure	-
P31	Group control error	-

PACi NX-Geräte

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
E04	Indoor / Outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor / Outdoor communication not establish	- Indoor / Outdoor wire terminal - Indoor / Outdoor PCB - Indoor / Outdoor connection wire
F04	Compressor temperature sensor abnormality	Continuous for 5s	-	Compressor temperature sensor open or short circuit	Compressor temperature sensor lead wire and connector
F06	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	-	Outdoor heat exchanger temperature sensor 1 open or short circuit	Outdoor heat exchanger temperature sensor 1 lead wire and connector
F08	Outdoor air temperature sensor abnormality	Continuous for 5s	-	Outdoor air temperature sensor open or short circuit	Outdoor air temperature sensor lead wire and connector
H01	Indoor high pressure protection	-	-	Indoor high pressure protection (Heating)	- Check indoor heat exchanger - Air filter dirty - Air circulation short circuit
H02	Power factor correction (PFC) circuit protection	4 times happen within 20 minutes	-	Power factor correction circuit abnormal	Outdoor PCB faulty
H03	Outdoor current transformer (CT) abnormality	-	-	Current transformer faulty or compressor faulty	Outdoor PCB faulty or compressor faulty
L18	4-way valve switching abnormality	4 times happen within 30 minutes	-	4-way valve switching abnormal	4-way valve - Lead wire and connector
P03	Compressor overheating protection	4 times happen within 20 minutes	-	Compressor overheat	Insufficient refrigerant
P04	Outdoor cooling high pressure protection	4 times happen within 20 minutes	-	Cooling high pressure protection	- Check refrigeration system - Outdoor air circuit
P05	Indoor / Outdoor misconnection abnormality	-	-	Indoor and outdoor rated voltage different	Indoor and outdoor units check

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
P07	Power transistor module overheating protection	4 times happen within 30 minutes	-	Power transistor module overheat	· PCB faulty · Outdoor air circuit (fan motor)
P15	Refrigeration cycle abnormality	2 times happen within 20 minutes	-	Refrigeration cycle abnormal	· Insufficient refrigerant or valve close
P16	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	-	Power transistor module current protection	· Power transistor module faulty os compressor lock
P22	Outdoor fan motor mechanism lock	2 times happen within 20 minutes	-	Outdoor fan motor lock or feedback abnormal	· Outdoor fan motor lead wire and connector · Fan motor lock or block
P29	Compressor abnormal revolution	4 times happen within 20 minutes	-	Compressor abnormal revolution	· Power transistor module faulty os compressor lock

Konformitätserklärung für die implementierung des BACnet-Protokoll

Date: Feb. 15,2021

Vendor Name: ALTRA S.L.

Product Name: Aidoo Pro

Product Model Number: AZA16WSP_{xxx}

Applications Software Version: 6.XX Firmware Revision: 0.8.2 BACnet Protocol Revision: 12

Product Description:

This product provides the function of monitoring and control HVAC units

BACnet Standardized Device Profile (Annex L):

- ☐ BACnet Operator Workstation (B-OWS)
- ☐ BACnet Building Controller (B-BC)
- ☐ BACnet Advanced Application Controller (B-AAC)
- ☒ BACnet Application Specific Controller (B-ASC) Aidoo Pro
- ☐ BACnet Smart Sensor (B-SS)
- ☐ BACnet Smart Actuator (B-SA)

BACnet Interoperability Building Blocks Supported (Annex K) :

	Supported BIBBs	BIBB Name
Data Sharing	DS-RP-B	Data Sharing-ReadProperty-B
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
	DS-WP-B	Data Sharing-WriteProperty-B
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B
	DS-COV-B	Data Sharing-COV-B
	DS-COVU-B	Data Sharing-COV-Unsolicited-B
Alarm and Event Management	AE-N-I-B	Alarm and Event-Notification Internal-B
Device Management	DM-DDB-A	Device Management-Dynamic Device Binding-A
	DM-DDB-B	Device Management-Dynamic Device Binding-B
	DM-DOB-B	Device Management-Dynamic Object Binding-B
	DM-DCC-B	Device Management-Device Communication Control-B
	DM-TS-B	Device Management-Time Synchronization-B
	DM-UTC-B	Device Management-UTCTimeSynchronization-B

Standard Object Types Supported:

(2) Analog Input

Dynamically Creatable: No
Dynamically Deletable : No
Optional Properties Supported : Reliability, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps
Writable Properties : Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Notify_Type
Proprietary Properties : n / a
Property Range Restrictions : n / a

(3) Analog Value

Dynamically Creatable: No
Dynamically Deletable : No
Optional Properties Supported : Reliability, Priority_Array, Relinquish_Default, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps
Writable Properties : Present_Value, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Notify_Type
Proprietary Properties : n / a
Property Range Restrictions : n / a

(2) Binary Input

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	Description, Reliability
Writable Properties :	n / a
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(3) Binary Output

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	Reliability
Writable Properties :	Present_Value
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(4) Binary Value

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	Reliability, Priority_Array, Relinquish_Default
Writable Properties :	Present_Value
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(5) Device

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	Max_Segment_Accepted, Local_Time, Local_Date, UTC_Offset, Daylight_Saving_Status, APDU_Segment_Timeout, Active_COV_Subscriptions
Writable Properties :	n / a
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(6) Multi-state Input

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	Description, Reliability
Writable Properties :	n / a
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(7) Multi-state Output

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	Reliability
Writable Properties :	Present_Value
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(8) Notification Class

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	n / a
Writable Properties :	Recipient_List
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

(19) Multi-state Value

Dynamically Creatable:	No
Dynamically Deletable :	No
Optional Properties Supported :	n / a
Writable Properties :	Present_Value
Proprietary Properties :	n / a
Property Range Restrictions :	n / a

Data Link Layer Options:

- ☐ BACnet IP, (Annex J)
- ☐ BACnet IP, (Annex J), Foreign Device
- ☐ ISO 8802-3, Ethernet (Clause 7)
- ☐ ANSI / ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ☐ ANSI / ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____
- ☒ MS / TP master (Clause 9), baud rate(s) : 9600, 19200, 38400, 57600, 76800, 115200
- ☐ MS / TP slave (Clause 9), baud rate(s) : _____ Point-To-
- ☐ Point, EIA 232 (Clause 10), baud rate(s) : _____
- ☐ Point-To-Point, modem, (Clause 10), baud rate(s): _____
- ☐ LonTalk, (Clause 11), medium : _____
- ☐ Other : _____

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS / TP slaves and certain other devices.) ☐ Yes ☒ No

Networking Options:

- ☐ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS / TP, etc.
- ☐ Annex H, BACnet Tunneling Router over IP
- ☐ BACnet / IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? ☐ Yes ☐ No

Character Sets Supported :

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- ☒ ANSI X3.4 ☐ IBM™ / Microsoft™ DBCS ☐ ISO 8859-1
- ☐ ISO 10646 (UCS-2) ☐ ISO 10646 (UCS-4) ☐ JIS C 6226

If this product is a communication gateway, describe the types of non-BACnet equipment / networks(s) that the gateway supports:

Airzone Cloud (IP)

Modbus slave

GYW control for HVAC 3° party thermostat

Panasonic



airzonecontrol.com

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v. 101

