

Zigbee features of FireFence by Brun EL

Purpose

This documents describes basic Zigbee features of FireFence by Brun Holding.

General

The Zigbee features are implemented in PCU, so that only connection to PCU is sufficient. No Zigbee connection to HDU is required since PCU and HDU communicate via BLE.

Joining Zigbbe network

To initialize new connection (or reset the old one) go to *Service Menu* (down arrow) → *3. Activation* → *3. ZB Pairing* and switch the Zigbee pairing ON by pressing green button.

Approximately one minute after successful connection a Zigbee icon will appear on the main screen.

Zigbee Features

There are two endpoints implemented in FireFence PCU.

Endpoint no. 1 is a Smart Plug endpoint.

Endpoint no. 1 description

ProfileId: 0x0104 (Home automation), DeviceId: 0x0051 (Smart Plug)

In clusters:

Cluster name	Cluster ID	Attribute name	Attribute ID	Default value	Comment
Basic	0x0000	ZCL version	0x0000	2	-
		Manufacturer name	0x0004	"Brun Holding"	-
		Model identifier	0x0005	"Power Control Unit"	-
		Power source	0x0007	0x01	Single-phase mains
Power Configuration	0x0001	Battery Percentage Remaining	0x0021	0xFF	Specifies the remaining battery life as a half integer percentage of the full battery capacity (e.g., 34.5%, 45%, 68.5%, 90%) with a range between zero and 100%, with 0x00 = 0%, 0x64 = 50%, and 0xC8 = 100%. The value 0xFF indicates an invalid or unknown reading.
Identify	0x0003	Identify time	0x0000	-	-
On/Off	0x0006	On/Off	0x0000	-	State of PCU's relay.
Temperature	0x0402	Measured value	0x0000	-	Measured value = 100 *

Cluster name	Cluster ID	Attribute name	Attribute ID	Default value	Comment
measurement					temperature (in degrees Celsius) Where -273.15 <= temperature <= 327.67 corresponding to a Measured value in the range 0x954d to 0x7fff. A Measured value of 0x8000 indicates that the temperature measurement is invalid.
		Min measured value	0x0001	0x8000	-
		Max measured value	0x0002	0x8000	-
Metering	0x0702	Current summation delivered	0x0000	-	Total delivered power in kWh. To get real value: raw value from this attribute must be multiplied and divided by Multiplier (0x0301) and Divisor (0x0302).
		Status	0x0200	-	-
		Unit of measure	0x0300	0x00	kW, kWh binary value
		Multiplier	0x0301	1	Current summation delivered should be multiplied by this value
		Divisor	0x0302	10	Current summation delivered should be divided by this value
		Summation Formatting	0x0303	0xF9	15 digits to the right of the Decimal Point. (Bits 0 to 2) 1 digit to the left of the Decimal Point. (Bits 3 to 6) Suppress leading zeros. (Bit 7)
		Device type	0x0306	0x00	Electric metering
Electrical measurement	0x0B04	Measurement type	0x0000	0x09	Active measurement, single phase or phase A
		Active power	0x050B	-	Active power delivered in Watts (W).

Out cluster:

Cluster name	Cluster ID	Attribute name	Attribute ID	Default value	Comment
Identify	0x0003	Identify time	0x0000	-	

