

ANNUNCIATOR
Alarm Anonsiyatör

ANC Series

**User
Manual**

Klemsan®



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Symbols

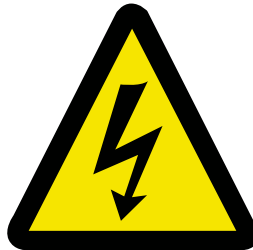
Attention:

This symbol indicates information that requires attention where it is used.



Electrical Shock Hazard:

This symbol indicates hazardous voltage or current.



Proper Use and Safety Conditions

- Installation and connections must be performed by authorized personnel in accordance with the instructions in the user manual. The device must not be operated until all connections are properly completed.
- Before connecting the device to the mains, ensure that the power is switched off.
- Use a dry cloth to clean or dust the device. Do not use alcohol, thinner, or any abrasive materials.
- The device should be powered on only after all connections have been completed.
- Do not open the inside of the device. There are no user-serviceable parts inside.
- The device must be kept away from humid, wet, vibrating, and dusty environments.



The manufacturer is not responsible for damages arising from failure to comply with the above precautions.



General Information

ANC-8, ANC-16, ANC-24, and ANC-32 are used to monitor alarms occurring in various applications through LED indicators, record them in real time, and remotely monitor them via RS-485.

The ANC-8, ANC-16, ANC-24, and ANC-32 have the following features:

- 8 (ANC-8), 16 (ANC-16), 24 (ANC-24), 32 (ANC-32) channel signal input
- Dual-color backlit display
- Ability to assign each channel to the “HORN” or “ALARM” relay via DIP-switch
- Green indication for “HORN” channels, red indication for “ALARM” channels
- Isolated RS-485 port
- Standard MODBUS RTU protocol
- Lithium battery-backed real-time clock (minimum 5-year battery life)
- Real-time logging up to 6080 events
- Signal input options: 24V, 48V, 110V, 220V AC/DC
- Alarm detection according to signal presence/absence
- Adjustable alarm delay between 0–30 seconds
- Two operating modes: “CONTINUOUS” and “PULSE”
- Alarm acknowledgement, deletion, and indicator testing via front panel
- Buzzer alarm indication
- 3 relay outputs: “HORN,” “ALARM,” “ERROR”
- Flexible configuration via DIP-switch and Modbus
- Low power consumption
- Wide supply voltage range
- Wide operating temperature range
- Configurable as ANC or LSK mode

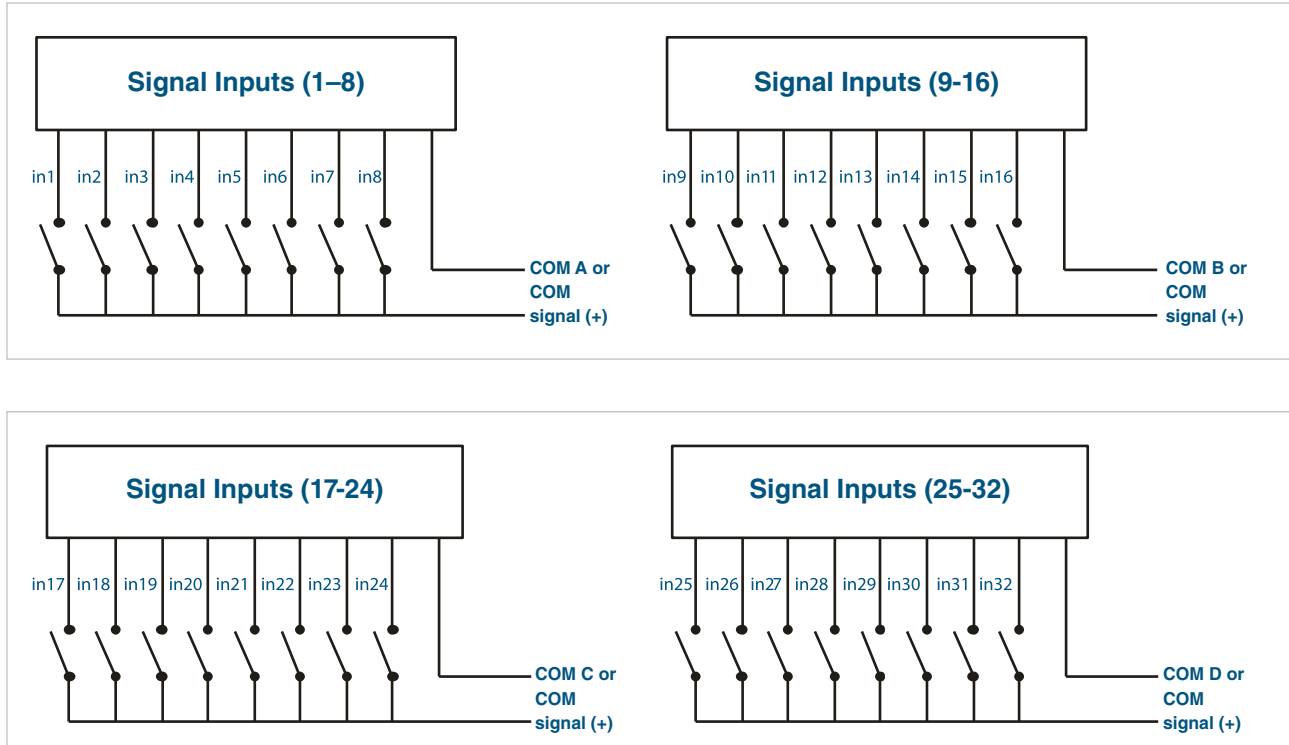
Table 1 Order Codes

		WITHOUT WATCHDOG CONTACTS 				WITH WATCHDOG CONTACTS 		
Signal Voltage – Device Supply Voltag		8 Channels	16 Channels	24 Channels	32 Channels	16 Channels	24 Channels	32 Channels
NON-ISOLATED	24VAC/DC, 85-300V AC/DC ±%10	604620	604630	604660	604670	604721	604724	604727
	48AC/DC, 85-300V AC/DC ±%10	604621	604631	604661	604671	604722	604725	604728
	110AC/DC, 85-300V AC/DC ±%10	604622	604632	604662	604672	604715	604716	604712
	220AC/DC, 85-300V AC/DC ±%10	604623	604633	604663	604673	604723	604726	604713
	85-300V AC/DC, 85-300V AC/DC ±%10	-	-	-	-	-	-	604714
	24VAC/DC, 24-50V AC/DC ±%10	-	604650	604665	604675	-	-	-
	48VAC/DC, 24-50V AC/DC ±%10	-	604651	604666	604676	-	-	-
	110VAC/DC, 24-50V AC/DC ±%10	-	604652	604667	604677	-	-	-
	220VAC/DC, 24-50V AC/DC ±%10	-	604653	604668	604678	-	-	-
ISOLATED	(24/48V AC/DC)	-	604700	604704	604708	604729	604731	604733
	(110/220V AC/DC)	-	604701	604705	604709	604730	604732	604734
	(24/48V AC/DC) (24-50VAC/DC p.s.)	-	604702	604706	604710	-	-	-
	(110/220V AC/DC) (24-50VAC/DC p.s.)	-	604703	604707	604711	-	-	-



Signal Input

The signal input voltages of all devices are 24V, 48V, 110V, and 220V AC/DC, and the input signal voltage must be specified when placing an order.



LED Indicator

The devices include between 8 and 32 LED indicators. These indicators are assigned to the corresponding signal input channels. When an alarm occurs on a channel, the related indicator displays the alarm status. The LED indicators can illuminate in two colors: red and green. In addition, the illumination pattern varies depending on the continuity of the signal in the input channel and whether it is the first or last alarm.

Front Panel Buttons

The device front panel has four buttons: **HORN**, **ACK**, **DEL**, and **TEST**.

HORN: This button silences the buzzer if it is active.

ACK: This button is used to acknowledge alarms. When the ACK button is pressed:

- If the signal condition persists, LEDs that were flashing rapidly switch to slow flashing, while LEDs already flashing slowly maintain their status.
- If the signal condition no longer exists, the corresponding LED remains steadily lit.

NOTE: In LSK mode, this button releases the relays; however, as long as the alarm input remains active, the LEDs of the channels corresponding to that input continue to light.

DEL: This button is used to clear alarms. If the alarms in the channels have been acknowledged and the signal condition no longer exists, pressing the DEL button will turn off the LEDs of those channels.

TEST: This button is used to check that the LEDs and the device are functioning properly. While the TEST button is pressed, the LEDs light up sequentially in red and green.



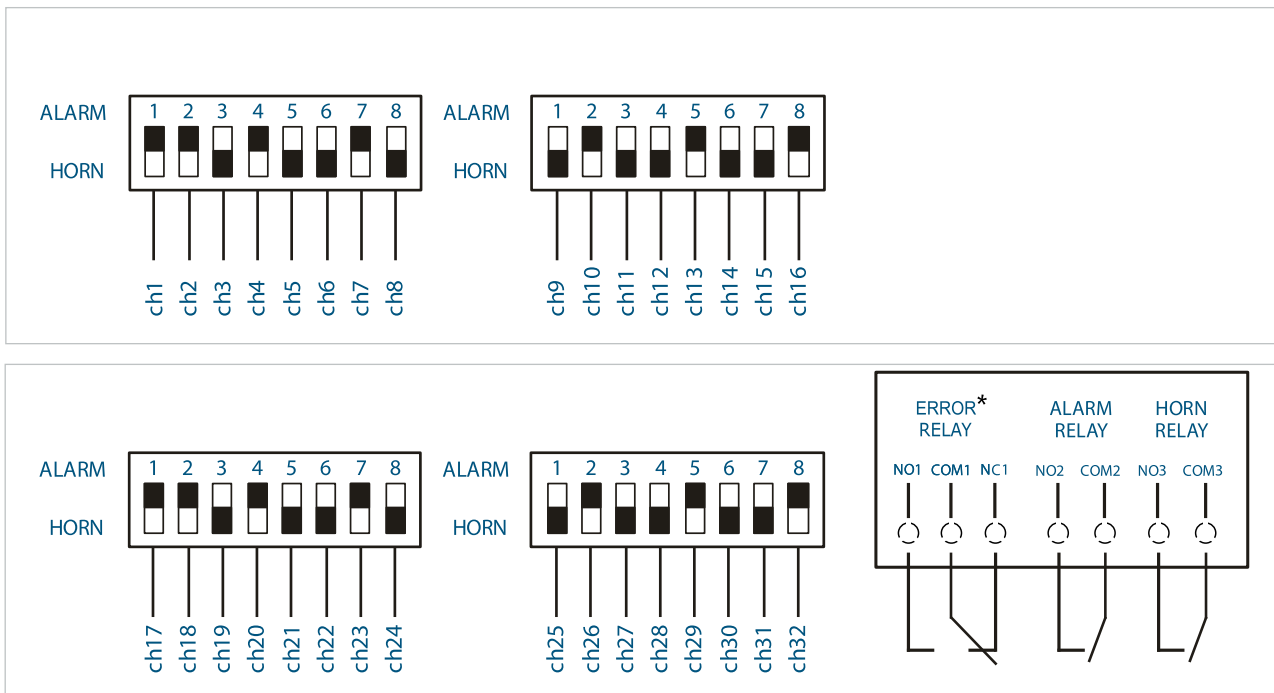
Alarm / Error / Horn Position and Relays

All input channels can be individually set as either an **ALARM** or **HORN** channel using the “Alarm / Horn Status” DIP switches.

Red LED indicators are assigned to **ALARM** channels, while green LED indicators are assigned to **HORN** channels.

The device has three relays: **ALARM**, **HORN**, and **ERROR**. Alarm channels are assigned to the **ALARM** relay, and horn channels are assigned to the **HORN** relay.

The **ERROR** relay remains energized as long as the device is powered.



*Available in models with watchdog contacts



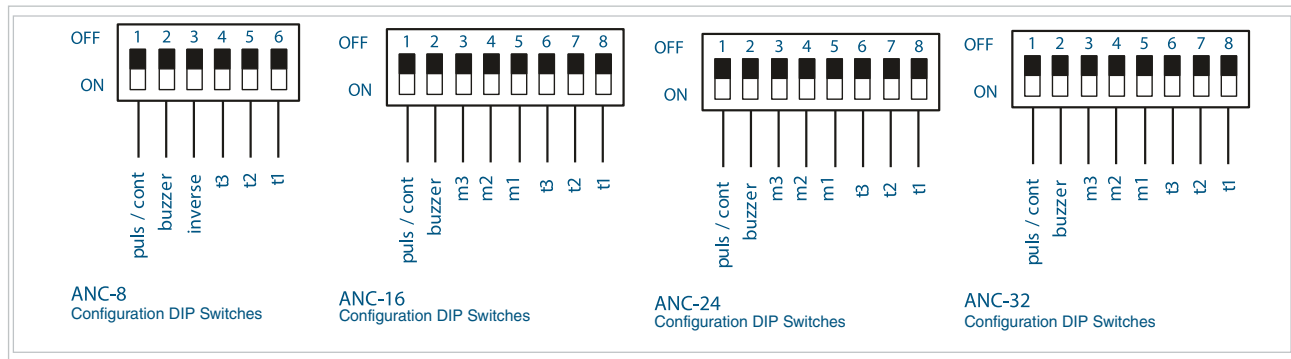
After changing the DIP switch settings, turn the device off and then on again. If the device is not restarted, it will continue to operate with the previous DIP switch settings.

Device Configuration

The device’s responses to input signals can be adjusted using the configuration DIP switch.

The following settings can be made with this DIP switch:

- Continuous / Pulse Mode (“puls / cont” switch)
- Buzzer Active / Inactive (“buzzer” switch)
- Input Signal Inversion
 - o ANC-8: “inverse” switch
 - o ANC-16: “inv. ch 1–8”, “inv. ch 9–16” switches
 - o ANC-24: “inv. ch 1–12”, “inv. ch 13–24” switches
 - o ANC-32: “inv. ch 1–16”, “inv. ch 17–32” switches
- First Alarm / Last Alarm (“m1, m2, m3” switches on ANC-16, ANC-24, and ANC-32)
- Delay (“t3”, “t2”, “t1” switches)



Continuous / Pulse Mode

When the “puls / cont” switch on the configuration DIP switch is in the OFF position, Continuous mode is selected. In Continuous mode, if an incoming alarm is assigned to an ALARM channel, the ALARM relay activates; if assigned to a HORN channel, the HORN relay activates, and the buzzer becomes active. The relays and buzzer maintain their current state until the alarms are acknowledged.

When the “puls / cont” switch is in the ON position, Pulse mode is selected. In Pulse mode, if an incoming alarm is assigned to an ALARM channel, the ALARM relay activates; if assigned to a HORN channel, the HORN relay activates, and the buzzer becomes active. After 5 seconds, the relays and buzzer return to the OFF position.

Buzzer Active / Inactive

The internal buzzer of the device can be activated or deactivated using the “BUZZER” switch on the configuration DIP switch.

Input Signal Inversion

Input signal inversion refers to the detection of an alarm when the signal on the input is interrupted.

In the ANC-8, the “INVERSE” switch on the configuration DIP switch is used to invert the input signals of all channels.

In the ANC-16, ANC-24, and ANC-32, the input signals of individual channels can be inverted by setting the “m1, m2, m3” switches on the configuration DIP switch.

First Alarm / Last Alarm

If the “m1, m2, m3” switches on the configuration DIP switch are set to First Alarm mode, in this mode the first incoming alarm flashes rapidly, while subsequent alarms flash slowly.

If the “m1, m2, m3” switches are set to Last Alarm mode, in this mode the last incoming alarm flashes rapidly, while previous alarms flash slowly.

The ANC-8 always operates in First Alarm mode.

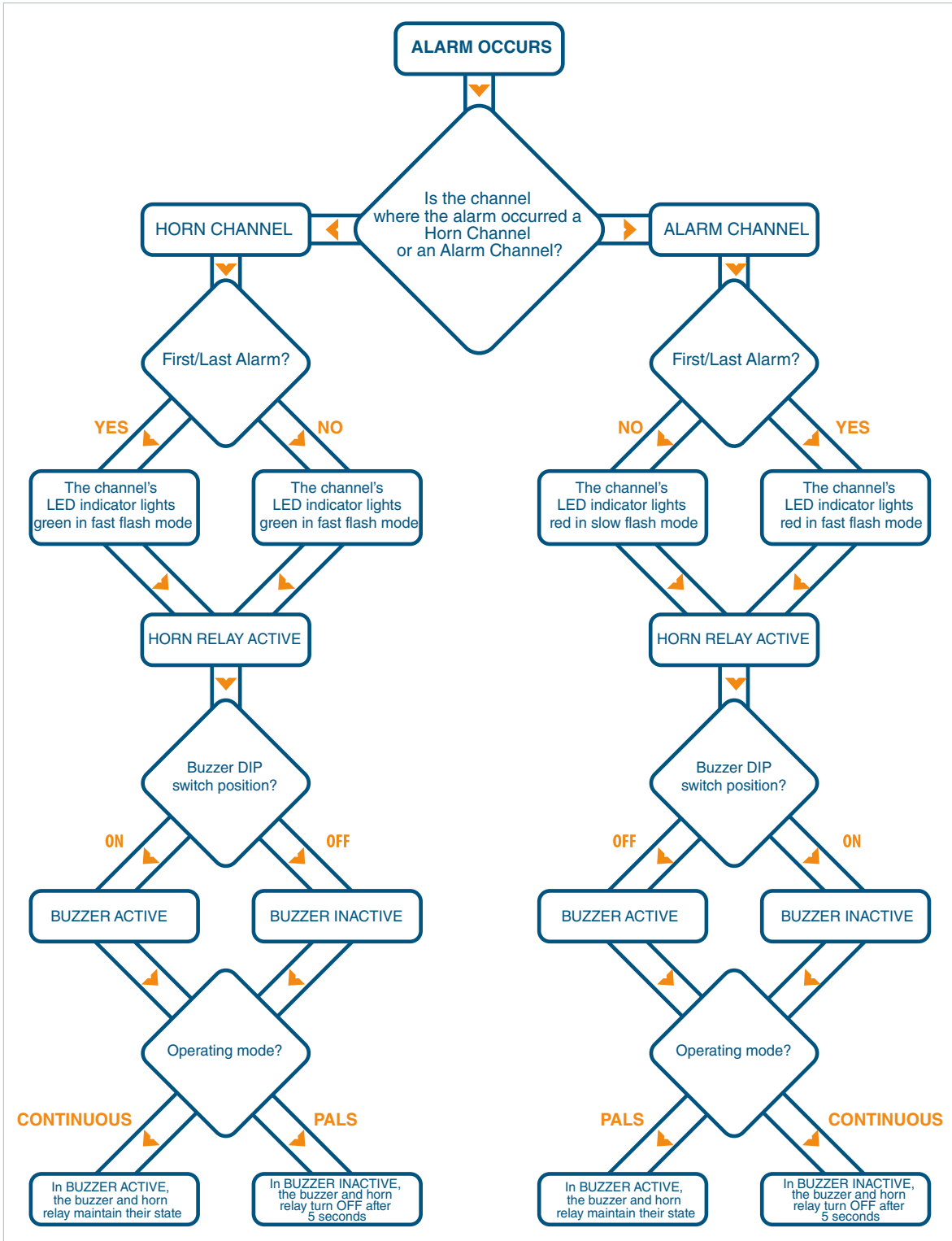
Delay Time

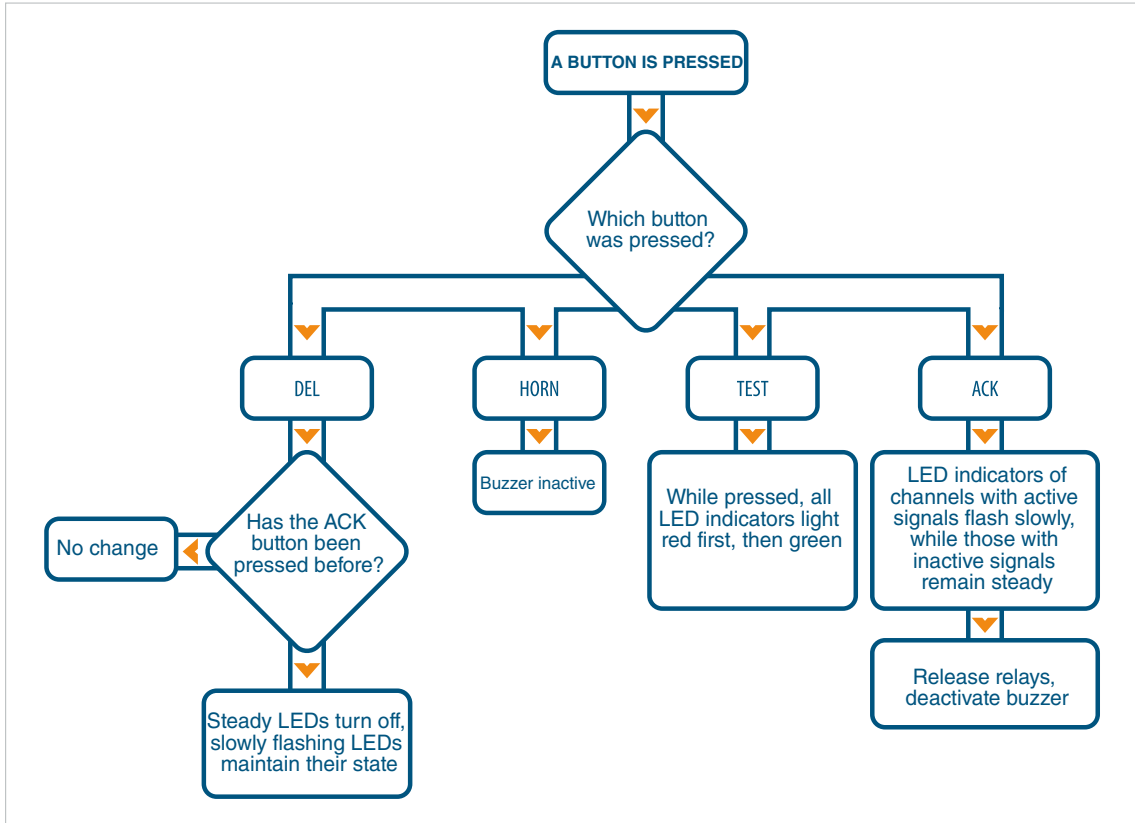
The device’s alarm detection can be delayed for a set period from the moment the signal begins. The delay time can be configured using the t1, t2, t3 switches on the configuration DIP switch and can be set to 0, 2, 5, 10, 15, 20, 25, or 30 seconds.

configuration tables									
m3	m2	m1	mode	inverse channels	indicate fast	t3	t2	t1	delay
0	0	0	ANC	NO	FIRST	0	0	0	off
0	0	1	ANC	NO	LAST	0	0	1	2 sec
0	1	0	ANC	1-12	FIRST	0	1	0	5 sec
0	1	1	ANC	1-12	LAST	0	1	1	10 sec
1	0	0	ANC	ALL	FIRST	1	0	0	15 sec
1	0	1	ANC	ALL	LAST	1	0	1	20 sec
1	1	0	LSK	NO	NONE	1	1	0	25 sec
1	1	1	LSK	ALL	NONE	1	1	1	30 sec

Operating Algorithm

The ANC-8, ANC-16, ANC-24, and ANC-32 operate according to the following algorithm (ANC Mode). In LSK mode, the output remains active as long as the channel input is active after the delay time.





Real-Time Clock (RTC)

The device is equipped with a real-time clock. Clock settings are configured via Modbus. See the Modbus Table.

Log

The device stores 6,080 logs in its non-volatile memory in real time.

The logs recorded by the device include the following;

- which channel the alarm occurred on or cleared from
- which buttons were pressed
- when the device was powered on or off
- when the device was restarted

Each log entry occupies 64 bits in memory and is stored as follows:

BCD format for day								BCD format for month							
63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48
BCD format for year (last two digits)								BCD format for hour							
47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
BCD format for minute								BCD format for second							
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
RST	PON	PDWN	HORN	ACK	DEL	TEST	SHORN	SACK	SDEL	ALMS	ALARM CHANNEL				
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

- Bit 63–56: BCD format day
- Bit 55–48: BCD format month
- Bit 47–40: BCD format year (last two digits, e.g., 2013 is read as 13)
- Bit 39–32: BCD format hour
- Bit 31–24: BCD format minute
- Bit 23–16: BCD format second
- Bit 15: device restarted
- Bit 14: device powered on
- Bit 13: device power lost
- Bit 12: HORN button pressed
- Bit 11: ACK button pressed
- Bit 10: DEL button pressed
- Bit 9: TEST button pressed
- Bit 8: software HORN command received
- Bit 7: software ACK command received
- Bit 6: software DEL command received
- Bit 5: alarm status (1 when alarm occurs, 0 when cleared)
- Bit 4–0: channel number where the alarm occurred in hexadecimal format

BCD Format

It is a numerical coding method used in computer and electronic systems to convert decimal numbers into binary. During this conversion process, each digit of the number is first converted individually into binary, and then the binary values corresponding to each digit are combined in sequence to obtain the BCD code representation of the number.

Decimal	Binary	BCD
0	0000	0000 0000
1	0001	0000 0001
2	0010	0000 0010
3	0011	0000 0011
4	0100	0000 0100
5	0101	0000 0101
6	0110	0000 0110
7	0111	0000 0111
8	1000	0000 1000
9	1001	0000 1001
10	1010	0001 0000
11	1011	0001 0001
12	1100	0001 0010
13	1101	0001 0011
14	1110	0001 0100
15	1111	0001 0101

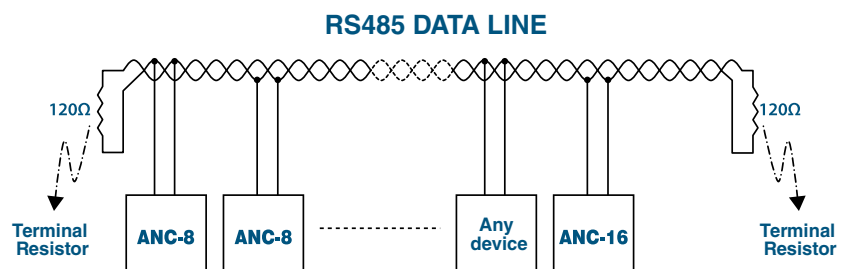
Communication

The device communicates via the isolated RS485 port using the MODBUS RTU protocol.

The supported functions are

- *Read Holding Registers (03H)
- *Preset Single Register (06H)
- *Preset Multiple Registers (10H).

RS485 Connection Line / Diagram



Modbus Table (for 8-Channel Product)

Address	Parameter Description	R / W	Data Type	Function
0	Input Status of Channels (Channels 1–16)	RO	16 bit word	03H
1	DIP Switch Status of Channels (Channels 1–16)	RO	16 bit word	03H
2	Configuration DIP Switch Status	RO	16 bit word	03H
3	Number of Logs in Memory	RO	16 bit word	03H
4	Second	R / W	16 bit word	03H-06H-10H
5	Minute	R / W	16 bit word	03H-06H-10H
6	Hour	R / W	16 bit word	03H-06H-10H
7	Day	R / W	16 bit word	03H-06H-10H
8	Mounth	R / W	16 bit word	03H-06H-10H
9	Year	R / W	16 bit word	03H-06H-10H
10	Baud Rate	R / W	16 bit word	03H-06H-10H
11	Slave ID	R / W	16 bit word	03H-06H-10H
12	Fast Flashing Indicators (Channels 1–16)	RO	16 bit word	03H
13	Slow Flashing Indicators (Channels 1–16)	RO	16 bit word	03H
14	Steady-On Indicators (Channels 1–16)	RO	16 bit word	03H

Modbus Table (for 16-, 24-, and 32-Channel Products)

Address	Parameter Description	R / W	Data Type	Function
0	Input Status of Channels (Channels 17–32)	RO	16 bit word	03H
1	Input Status of Channels (Channels 1–16)	RO	16 bit word	03H
2	DIP Switch Status of Channels (Channels 17–32)	RO	16 bit word	03H
3	DIP Switch Status of Channels (Channels 1–16)	RO	16 bit word	03H
4	Configuration DIP Switch Status	RO	16 bit word	03H
5	Number of Logs in Memory	RO	16 bit word	03H
6	Second	R / W	16 bit word	03H-06H-10H
7	Minute	R / W	16 bit word	03H-06H-10H
8	Hour	R / W	16 bit word	03H-06H-10H
9	Day	R / W	16 bit word	03H-06H-10H
10	Mounth	R / W	16 bit word	03H-06H-10H
11	Year	R / W	16 bit word	03H-06H-10H
12	Baud Rate	R / W	16 bit word	03H-06H-10H
13	Slave ID	R / W	16 bit word	03H-06H-10H
14	RESERVE	RO	16 bit word	03H
15	Firmware Version	RO	16 bit word	03H
16	Fast Flashing Indicators (Channels 17–32)	RO	16 bit word	03H
17	Fast Flashing Indicators (Channels 1–16)	RO	16 bit word	03H
18	Slow Flashing Indicators (Channels 17–32)	RO	RO	03H
19	Slow Flashing Indicators (Channels 1–16)	RO	RO	03H
20	bSteady-On Indicators (Channels 17–32)	RO	16 bit word	03H
21	Steady-On Indicators (Channels 1–16)	RO	16 bit word	03H

Modbus Table (for 8-, 16-, 24-, and 32-Channel Products)

Address	Parameter Description	R / W	Data Type	Function
24	Command Address	WO	16 bit word	06H
50	1st Log Day and Month	RO	16 bit word	03H
51	1st Log Year and Hour	RO	16 bit word	03H
52	1st Log Minute and Second	RO	16 bit word	03H
53	1st Log Data	RO	16 bit word	03H
54	2nd Log Day and Month	RO	16 bit word	03H
55	2nd Log Year and Hour	RO	16 bit word	03H
56	2nd Log Minute and Second	RO	16 bit word	03H
57	2nd Log Data	RO	16 bit word	03H
58	3rd Log Day and Month	RO	16 bit word	03H
59	3rd Log Year and Hour	RO	16 bit word	03H
60	3rd Log Minute and Second	RO	16 bit word	03H
61	3rd Log Data	RO	16 bit word	03H
62	4th Log Day and Month	RO	16 bit word	03H
63	4th Log Year and Hour	RO	16 bit word	03H
64	4th Log Minute and Second	RO	16 bit word	03H
65	4th Log Data	RO	16 bit word	03H
66	5th Log Day and Month	RO	16 bit word	03H
67	5th Log Year and Hour	RO	16 bit word	03H
68	5th Log Minute and Second	RO	16 bit word	03H
69	5th Log Data	RO	16 bit word	03H
.
.
.
.
24358	6076th Log Day and Month	RO	16 bit word	03H
24359	6076th Log Year and Hour	RO	16 bit word	03H
24360	6076th Log Minute and Second	RO	16 bit word	03H
24361	6076th Log Data	RO	16 bit word	03H
24362	6077th Log Day and Month	RO	16 bit word	03H
24363	6077th Log Year and Hour	RO	16 bit word	03H
24364	6077th Log Minute and Second	RO	16 bit word	03H
24365	6077th Log Data	RO	16 bit word	03H
24362	6078th Log Day and Month	RO	16 bit word	03H
24363	6078th Log Year and Hour	RO	16 bit word	03H
24364	6078th Log Minute and Second	RO	16 bit word	03H
24365	6078th Log Data	RO	16 bit word	03H

Modbus Table (for 8-, 16-, 24-, 32-Channel Products)

Address	Parameter Description	R / W	Data Type	Function
24362	6079th Log Day and Month	RO	16 bit word	03H
24363	6079th Log Year and Hour	RO	16 bit word	03H
24364	6079th Log Minute and Second	RO	16 bit word	03H
24365	6079th Log Data	RO	16 bit word	03H
24366	6080th Log Day and Month	RO	16 bit word	03H
24367	6080th Log Year and Hour	RO	16 bit word	03H
24368	6080th Log Minute and Second	RO	16 bit word	03H
24369	6080th Log Data	RO	16 bit word	03H

NOTE: A maximum of 124 data points can be requested in a single query.

Channel Alarm Flags

15	14	13	12	11	10	9	8
32nd Channel Alarm Status	31st Channel Alarm Status	30th Channel Alarm Status	29th Channel Alarm Status	28th Channel Alarm Status	27th Channel Alarm Status	26th Channel Alarm Status	25th Channel Alarm Status

7	6	5	4	3	2	1	0
24th Channel Alarm Status	23rd Channel Alarm Status	22nd Channel Alarm Status	21st Channel Alarm Status	20th Channel Alarm Status	19th Channel Alarm Status	18th Channel Alarm Status	17th Channel Alarm Status

15	14	13	12	11	10	9	8
16th Channel Alarm Status	15th Channel Alarm Status	14th Channel Alarm Status	13th Channel Alarm Status	12th Channel Alarm Status	11th Channel Alarm Status	10th Channel Alarm Status	9th Channel Alarm Status

7	6	5	4	3	2	1	0
8th Channel Alarm Status	7th Channel Alarm Status	6th Channel Alarm Status	5th Channel Alarm Status	4th Channel Alarm Status	3rd Channel Alarm Status	2nd Channel Alarm Status	1st Channel Alarm Status

Channel DIP Switch Status

15	14	13	12	11	10	9	8
32nd Channel	31st Channel	30th Channel	29th Channel	28th Channel	27th Channel	26th Channel	25th Channel

7	6	5	4	3	2	1	0
24th Channel	23rd Channel	22nd Channel	21st Channel	20th Channel	19th Channel	18th Channel	17th Channel

15	14	13	12	11	10	9	8
16th Channel	15th Channel	14th Channel	13th Channel	12th Channel	11th Channel	10th Channel	9th Channel

7	6	5	4	3	2	1	0
8th Channel	7th Channel	6th Channel	5th Channel	4th Channel	3rd Channel	2nd Channel	1st Channel

Configuration DIP Switch Status

ANC-8

15	14	13	12	11	10	9	8
Reserved	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved

7	6	5	4	3	2	1	0
Reserved	Reserved	t1	t2	t3	Inverse	Buzzer	Cont / Pals

ANC16-ANC24-ANC32

15	14	13	12	11	10	9	8
Reserved	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved

7	6	5	4	3	2	1	0
t1	t2	t3	First / Last	Inv. Ch 9-16	Inv. Ch 1-8	Buzzer	Cont / Pals

Number of Logs in Memory

In the devices, the number of logs stored in memory is provided to the user via Modbus. When the device reaches the end of its 6,080-log memory, new logs continue to be recorded by overwriting the oldest logs from the beginning of the memory. The number of logs in memory can be observed as a maximum of 6,079. When this value is seen as "0," it indicates that the memory is full and has wrapped around. This means that at that moment, there are 6,080 logs in memory.

Time / Date Setting

In all ANC devices, the time and date values can be read and configured via Modbus. These values can be modified using function codes 06H or 10H.

Baud Rate Setting

The baud rate of the devices can be read and set via Modbus. These values can be changed using function codes 06H or 10H. The baud rate can be set to the following values:

- 1200 bps
- 2400 bps
- 4800 bps
- 9600 bps
- 19200 bps
- 38400 bps
- 57600 bps

The factory default baud rate of the device is set to 9600 bps.

Slave ID Setting

In ANC devices, the Slave ID value can be read and set via Modbus. The Slave ID can be set to values between 1 and 247. This value can be changed using function codes 06H or 10H. The factory default Slave ID of the device is set to 1.

LED Indicator Status Addresses

The three MODBUS addresses defined in the MODBUS table reflect the LED indicator status of the device. These addresses allow determining which LED indicators are currently lit and in what state. This feature can be used to monitor the display status of devices remotely.

bit15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8
32nd Channel LED Indicator	31st Channel LED Indicator	30th Channel LED Indicator	29th Channel LED Indicator	28th Channel LED Indicator	27th Channel LED Indicator	26th Channel LED Indicator	25th Channel LED Indicator

bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
24th Channel LED Indicator	23rd Channel LED Indicator	22nd Channel LED Indicator	21st Channel LED Indicator	20th Channel LED Indicator	19th Channel LED Indicator	18th Channel LED Indicator	17th Channel LED Indicator

bit15	bit 14	bit 13	bit 12	bit 11	bit 10	bit 9	bit 8
16th Channel LED Indicator	15th Channel LED Indicator	14th Channel LED Indicator	13th Channel LED Indicator	12th Channel LED Indicator	11th Channel LED Indicator	10th Channel LED Indicator	9th Channel LED Indicator

bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
8th Channel LED Indicator	7th Channel LED Indicator	6th Channel LED Indicator	5th Channel LED Indicator	4th Channel LED Indicator	3rd Channel LED Indicator	2nd Channel LED Indicator	1st Channel LED Indicator

Structure of the LED status registers

Address 12 – This address indicates the position of fast-flashing LED indicators: if the corresponding bit value is “1,” the LED indicator of that channel is flashing rapidly.

Address 13 – This address indicates the positions of slow-flashing LED indicators: if the corresponding bit values are “1,” the LED indicators of those channels are flashing slowly.

Address 14 – This address indicates the positions of steady-on LED indicators: if the corresponding bit value is “1,” the LED indicators of those channels are steady on.

If none of these addresses have a “1” value for a channel, the LED indicator of that channel is OFF.

Command Address

When the numbers corresponding to the defined commands are sent to this address, the operations of the relevant command are executed. The defined commands are as follows:

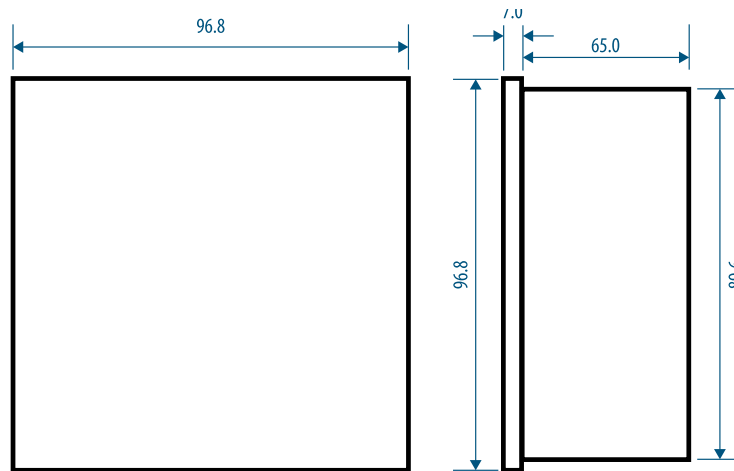
Command Function	Address to Send the Command	Number to Send
Press HORN Button	24	1111
Press ACK Button	24	2222
Press DEL Button	24	3333

After the relevant command is executed, it is logged along with the current date and time. See: Log (Record). Firmware

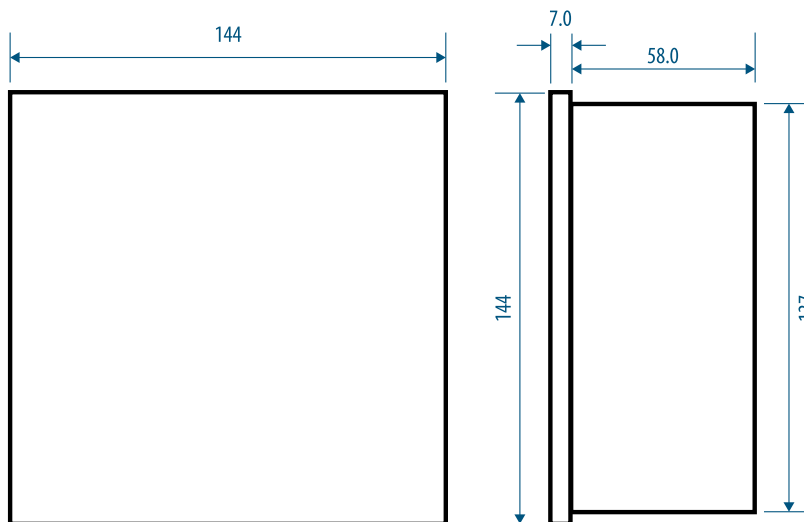
Firmware Version

The version of the embedded software installed on the device can be read from the “firmware version” address.

Dimensions (mm)



ANC-8 Dimensions



ANC-16, ANC-24, ANC-32 Dimensions

Technical Specifications

Input

Number of Channels
8 (ANC-8)
16 (ANC-16)
24 (ANC-24)
32 (ANC-32)

Channel Currentv < 1.5mA

Input Signal 24V, 48V, 110V ve 220V AC/DC

		45Hz	50Hz	60Hz	65Hz	DC
High Signal Voltage (threshold for detecting signal presence)	24V	16V	17V	18V	19V	21V
	48V	32V	33V	35V	38V	42V
	110V	72V	75V	80V	85V	100V
	220V	145V	150V	160V	170V	200V
Low Signal Voltage (threshold for detecting signal absence)	24V	14V	14V	14V	14V	13V
	48V	28V	28V	28V	28V	27V
	110V	67V	67V	67V	67V	62V
	220V	135V	135V	135V	135V	125V

General

Supply Voltage ANC-8 Series => 110-300VAC/DC±%10
ANC-16, 24, and 32 Series => 85..300VAC/DC or
24..50VAC/DC ±%10

Frequency 45..65Hz

1500Vrms (Her 8'erli sinyal grupları arasında) - Sadece izoleli modellerde (bkz. Tablo-1)
(Between each group of 8 signals) – Only for isolated models

Power Consumption < 5VA -> ANC-8 (85..300VAC)
< 3W -> ANC-8 (85..300VDC)
< 5VA -> ANC-16,ANC-24,ANC-32 (85..300VAC)
< 3W -> ANC-16,ANC-24,ANC-32 (85..300VDC)
< 5VA -> ANC-16,ANC-24,ANC-32 (24..50VAC)
< 3W -> ANC-16,ANC-24,ANC-32 (24..50VDC)

RTC Battery Life: > 5 years

Operating Temperature -20°C..+70°C

Storage Temperature -30°C..+80°C

Relative Humidity: maximum 95% (without condensation)

Connection: Screw terminal

Dimensions 96x96x72 (ANC-8)
144x144x65 (ANC-16, ANC-24, ANC-32)

Protection Class: IP50 (front),
IP20 (rear)

User Interface

Keypad 4 ESD-protected keys

LED Indicator 8 backlight dual-color LED indicators, 1 ON LED (ANC-8)
16 backlight dual-color LED indicators, 1 ON LED (ANC-16)
24 backlight dual-color LED indicators, 1 ON LED (ANC-24)
32 backlight dual-color LED indicators, 1 ON LED (ANC-32)

Output

Relay Outputs 2 Form-A relays + 1 Form-C relay

Maximum Switching Current 5A AC, 3A DC

Maximum Switching Voltage 250V AC, 30V DC

Maximum Switching Power 1250VA, 90W

Communication

Communication Interface Isolated RS485 port

Protocol Modbus RTU

Isolation: 2500V RMS

Baud Rate 1200, 2400, 4800, 9600, 19200, 38400, 57600 bps

