

Inova-bg Ltd.

Extended Protocols

Table of contents:

1. Ademco Contact ID 3

2. LARS I..... 5

1. Ademco Contact ID

Sur-Gard CID Extended:

Data protocol:

5RRLs18AAAAQXYZGGCCCsPPPsNN[DC4]

Where, 5 : Protocol number.

RR : Receiver number.

L : Line number.

s : Space.

18 : Contact-ID format identifier.

AAAA : Four digit account codes.

Q: Qualifier, E = New event or opening, R = New restore or closing,

P = Previous event

XYZ : Class code and event code.

GG : Group number.

CCC : Zone codes or user ID.

s : Space.

PPP : Signal quality in % – 1 to 100.

s : Space.

NN : Number of repeaters that received the signal – 0 to 99

(Only for test signals. Otherwise it's NN = 00)

[DC4] : Terminator, 14 Hex

Heartbeat protocol:

1011ssssssssss@ssss[DC4]

Where, s : Space Character.

@ : Supervisory Signal.

[DC4] : Terminator, 14 Hex.

Monitoring Software answer (acknowledge):

1-byte answer to acknowledge that the message is received

Ademco 685 CID Extended:Data protocol:**LFRGsAAAAs18sQXYZsGGsFCCCsPPPsNNsCR**

Where, LF : Header (ASCII Line Feed – Hex 0A).

R : Receiver number.

G : Receiver Group number.

s : Space.

AAAA : Four digit account number.

s : Space.

18 : Contact-ID format identifier.

Q: Qualifier, E = New event or opening, R = New restore or closing,

P = Previous event

XYZ : Event Definition Code.

s : Space.

GG : 2-digit Group number.

s : Space.

F : Defines CCC. C = Contact, U = User

CCC : 3-Decimal digits representing Contact or User.

s : Space.

PPP : Signal quality in % – 1 to 100.

s : Space.

NN : Number of repeaters that received the signal – 0 to 99

(Only for test signals. Otherwise it's NN = 00)

s : Space.

CR : Terminator (ASCII Carriage Return – Hex 0D).

Heartbeat protocol:**LF00sOKAYs@CR**

Where, LF : Header (ASCII Line Feed – Hex 0A).

00 : 2-digits 0

s : Space

OKAY: 4-symbols

s : Space

@ : Supervisory Signal.

CR : Terminator (ASCII Carriage Return – Hex 0D).

Monitoring Software answer (acknowledge):

1-byte answer to acknowledge that the message is received

2. LARS I

LARS I Extended:

Data protocol:

[LF]SS[NUL]AAAA[NUL]EEsPPPsNN[CR]

Where, [LF] : 0A Hex.

SS : 2-digit System number.

[NUL] : 00 Hex.

AAAA : 4-digit account codes.

[NUL] : 00 Hex.

EE : 2-Symbols Event code.

s : Space.

PPP : Signal quality in % – 1 to 100.

s : Space.

NN : Number of repeaters that received the signal – 0 to 99

(Only for test signals. Otherwise it's NN = 00)

[CR] : 0D Hex

Heartbeat protocol:

LF00sOKAYs@CR

Where, LF : Header (ASCII Line Feed – Hex 0A).

00 : 2-digits 0

s : Space

OKAY: 4-symbols

s : Space

@ : Supervisory Signal.

CR : Terminator (ASCII Carriage Return – Hex 0D).

Monitoring Software answer (acknowledge):

1-byte answer to acknowledge that the message is received