

Remote annunciator IGL-RA15

August 2010



Reference Guide



ComAp, spol. s r.o.

Kundratka 2359/17, 180 00 Praha 8, Czech Republic
Tel: +420 246 012 111, Fax: +420 266 316 647
E-mail : info@comap.cz, www.comap.cz

Support : support@comap.cz

Copyright © 2010 ComAp s.r.o.
Written by: R.Taragel



Table of Contents

| | |
|----------------------------------|---|
| Table of Contents | 2 |
| Document information | 3 |
| General Description | 4 |
| Terminals and dimensions | 4 |
| Wiring | 5 |
| Controller type settings | 5 |
| Controller address setting | 6 |
| LEDs color change | 6 |
| Horn timeout setting | 6 |
| Signal LEDs..... | 6 |
| Horn..... | 7 |
| Lamp and horn test | 7 |
| LED labels | 8 |
| Technical data | 9 |
| Power supply..... | 9 |
| Operating conditions | 9 |
| Dimensions and weight | 9 |
| Horn output..... | 9 |
| CAN bus interface | 9 |

Document information

IGL-RA15 – Remote Anunnciator – Reference Guide

Written by : Roman Taragel

©2010 ComAp

Kundratka 17, Prague 8, CZECH REPUBLIC

PHONE: +420246012111, FAX: +420266316647

WEB: [HTTP://WWW.COMAP.CZ](http://www.comap.cz),

E-MAIL: [INFO@COMAP.CZ](mailto:info@comap.cz)

DOCUMENT HISTORY

| Revision Number | Related SW Version | Date |
|-----------------|--------------------|-----------|
| Rev.A | 2.0 | 16.8.2010 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



The following described machine complies with the appropriate basic safety and health requirement of the EC Low Voltage Directive No: 73/23 / EEC and EC Electromagnetic Compatibility Directive 89/336 / EEC based on its design and type, as brought into circulation by us.

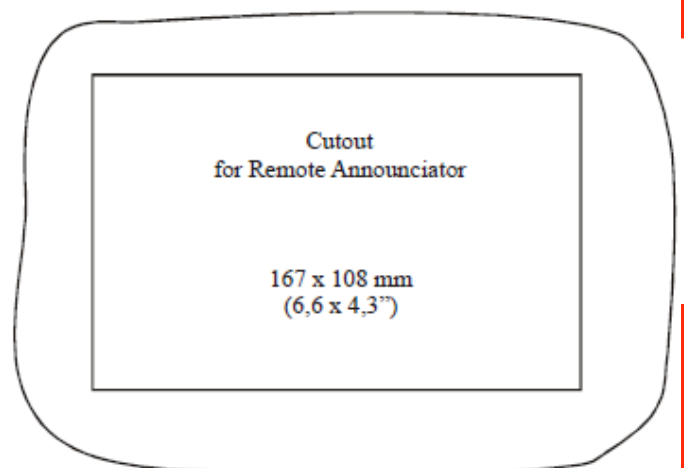
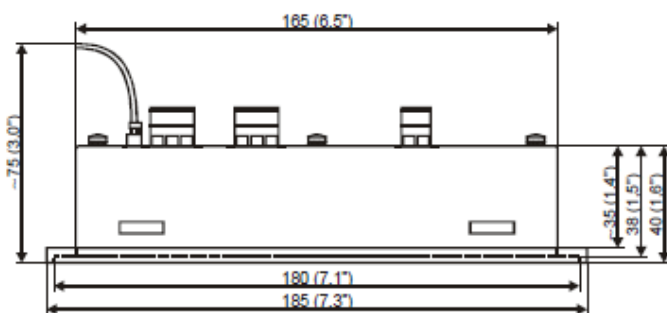
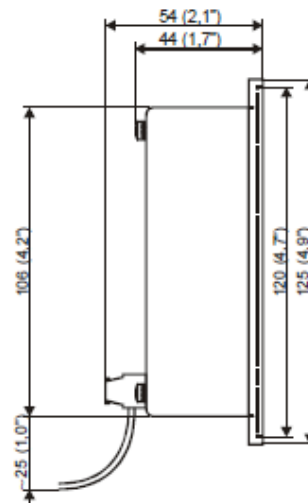
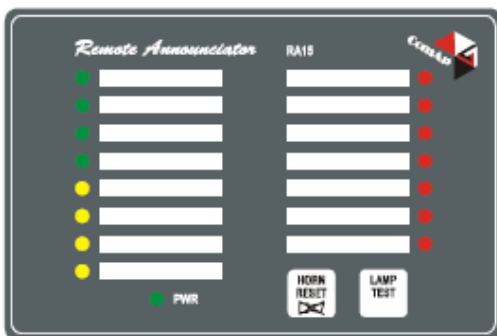
General Description

Remote annunciator (IGL-RA15) is designed as an extension signaling unit for :

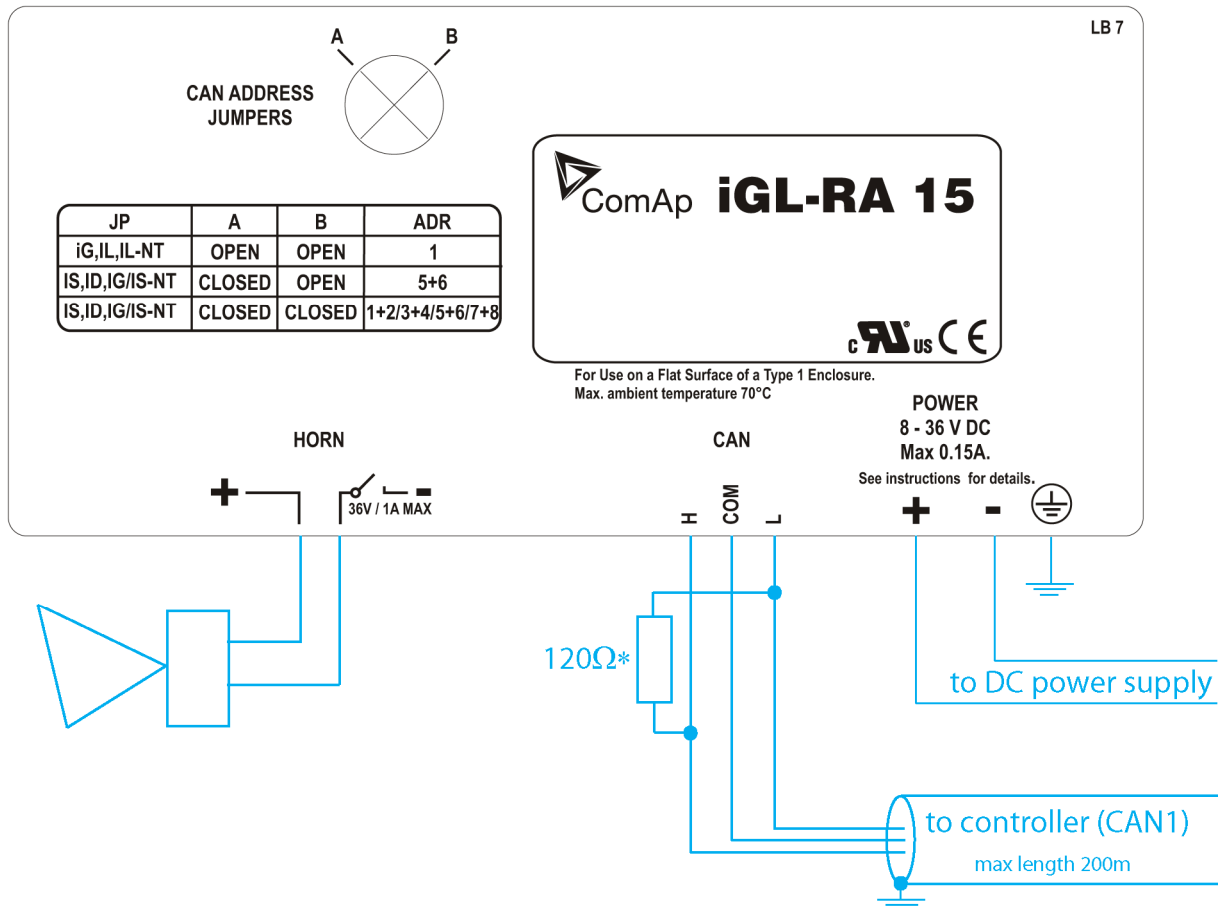
- IntelliSys-NT or IntelliSys-CU
- IntleiGen-NT or IntleiGen-CU
- IntelliCompact-NT
- IntelliLite-NT or IntelliLite-CU
- IntreliDrive-DCU
- IntelliDrive-Mobile
- IntelliDrive-Lite

The unit is equipped with a fully configurable tri color (red, orange, green) LED for intuitive operation together with high functionality.

Terminals and dimensions



Wiring



* terminator resistor only when iGL-RA 15 is the last unit on the CAN1 bus.

Note:

1. The shielding of the CAN bus cable has to be grounded at one point only!
2. See the section Technical data for recommended CAN bus cable type

Controller type settings

| controller type | jumper A | jumper B | address |
|--|----------|----------|------------------|
| InteliGen InteliLite InteliCompact-NT InteliLite-NT | OPEN | OPEN | 1 |
| InteliSys InteliDrive InteliGen-NT InteliSys-NT | CLOSED | OPEN | 5+6 |
| InteliSys InteliDrive InteliGen-NT InteliSys-NT | CLOSED | CLOSED | customer defined |

Controller address setting

SW changing of CAN1 address is enabled only when both jumpers are closed. Any one of these addresses (1+2 or 3+4 or 5+6 or 7+8) can be set by following steps:

- Switch to programming mode (Hold the *Horn reset* and *Lamp test* when unit is powering on)
Status led is yellow
- Press *Lamp test* sixteen times
- Set the address up by pressing *Horn reset*.
The number of red luminous LEDs means the CAN1 addresses
(two for addresses 1+2, four for addresses 3+4, six for addresses 5+6 and eight for addresses 7+8)
- Press *Lamp test*

LEDs color change

Each LED color is adjusted independently of controller output settings. If controller output 1 is set as “Common Shutdown” it doesn’t mean red LED1 color for iGL-RA15. The LEDs color can be adjusted by following steps:

- Switch to programming mode (Hold the *Horn reset* and *Lamp test* when unit is powering on)
Status led is yellow
- Press *Horn reset* to change the LED1 color (green, yellow, red)
- Press *Lamp test* to switch to the next LED color adjusting
- Continue to adjust all LEDs color
- After LED15 color adjusting press three times *Lamp test*

Horn timeout setting

The horn output is activated if any of red or yellow LED is on. Output is on until pressing *Horn reset* or horn timeout counts down. The timeout can be set by following steps:

- Switch to programming mode (Hold the *Horn reset* and *Lamp test* when unit is powering on)
Status led is yellow
- Press *Lamp test* fifteen times
- Set the horn timeout by pressing *Horn reset*.
The number of green luminous LEDs means timeout in 10s.
(any for disabling horn output, 1 for 10s timeout, 2 for 10s timeout, 15 for disabling horn timeout.)
- Press *Lamp test* two times

Note:

If there is no operator action during address setting, color adjusting or timeout setting, the unit returns to normal operation without changes saving.

Signal LEDs

The signal LEDs are handled like binary outputs. It means all what can be configured to binary outputs can be also configured to the LEDs of iGL-RA15.

- The LED lights, if configured logical output is active on the controller
- The green LED is dark, if configured logical output is not active on the controller
- The yellow or red LED is dark, if configured logical output is not active on the controller and *horn reset* was pressed.
- The yellow or red LED blinks, if configured logical output is not active on the controller and *horn reset* was still not pressed.

PWR LED:

- Is blinking green, if the unit is OK and the communication to the master controller is OK.
- Is blinking red, if the unit is OK, but the communication to the master controller is not running.
- Is blinking yellow, if EEPROM check not passed OK after power on
- Is steady yellow during the LED colour, horn timeout or controller address adjustment

Note:

If the PWR LED is blinking yellow, the unit must be reconfigured (see chapter LEDs color change, Horn timeout setting or Controller address setting.)

Horn

The horn is activated if:

1. Some of red or yellow LED lights up or
2. at the end of the extended lamp test (see below)

The horn can be silenced:

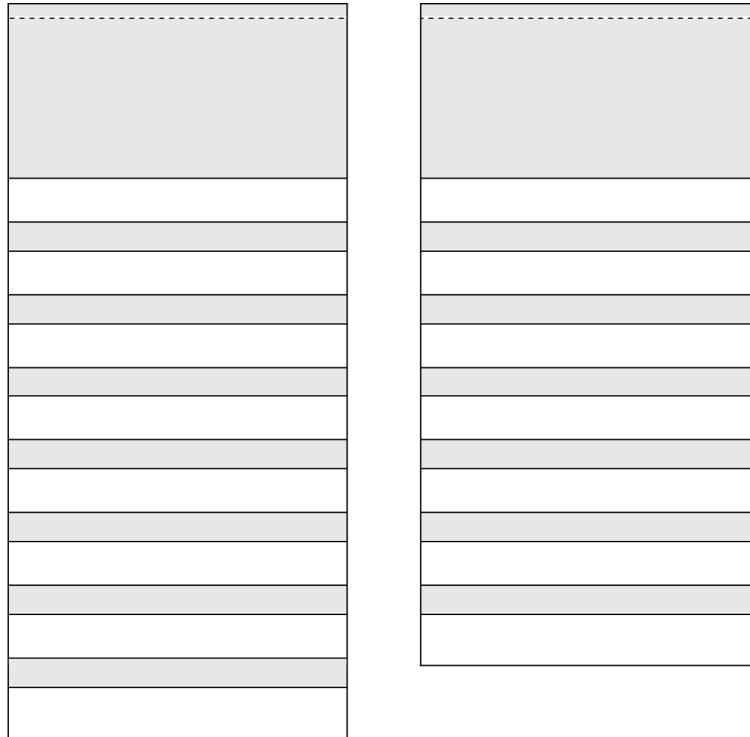
1. by pressing *horn reset* button or
2. it silences automatically after adjusted time (see chapter *Horn timeout setting* above)

Lamp and horn test

Pressing and holding *lamp test* button for less than 2s execute the basic lamp test. All LEDs light up with the configured colour. If the button is hold longer than 2s, an extended test is started. Every LED is tested step-by-step in green colour and then in red colour. The horn is activated at the end of the test. After that the unit returns to normal operation. The horn can be silenced with *horn reset*.

LED labels

The labels are slipped to slots in the front foil. The slot openings are located on the upper edge of the front panel. The RA15 module is shipped with one A4 sheet of foil for printing of labels.



Technical data

Power supply

| | |
|----------------|--|
| Voltage supply | 8-36V DC |
| Consumption | 0.35-0.1A (+1Amax horn output) depends on supply voltage |

Operating conditions

| | |
|-------------------------------|--|
| Operating temperature | -20..+70 °C |
| Storage temperature | -30..+80 °C |
| Protection front panel | IP65 |
| Humidity | 85% |
| Standard conformity | |
| Low Voltage Directive | EN 61010-1:95 +A1:97 |
| Electromagnetic Compatibility | EN 50081-1:94, EN 50081-2:96 EN 50082-1:99, EN 50082-2:97 |
| Vibration | 5 - 25 Hz, ±1,6mm 25 - 100 Hz, a = 4 g |
| Shocks | a = 200 m/s ² |

Dimensions and weight

| | |
|------------|--------------|
| Dimensions | 180x120x55mm |
| Weight | 950g |

Horn output

| | |
|---------------------------|--------|
| Maximum current | 1.0 A |
| Maximum switching voltage | 36 VDC |

CAN bus interface

| | |
|---|---------------------------------------|
| Galvanic separated | |
| Maximal CAN bus length | 200m |
| Speed | 250kBd |
| Nominal impedance | 120Ω |
| Cable type | twisted pair (shielded) |
| Following dynamic cable parameters are important especially for maximal 200 meters CAN bus length: | |
| Nominal Velocity of Propagation | min. 75% (max. 4,4 ns/m) ² |
| Wire crosscut | min.0,25 mm |
| Maximal attenuation (at 1 MHz) | 2 dB / 100m |
| Recommended Industrial Automation & Process Control Cables: | |
| BELDEN (see http://www.belden.com): | |
| <ul style="list-style-type: none"> • 3082A DeviceBus for Allen-Bradley DeviceNet • 3083A DeviceBus for Allen-Bradley DeviceNet • 3086A DeviceBus for Honeywell SDS • 3087A DeviceBus for Honeywell SDS • 3084A DeviceBus for Allen-Bradley DeviceNet • 3085A DeviceBus for Allen-Bradley DeviceNet • 3105A Paired EIA Industrial RS485 cable | |

LAPP CABLE (see <http://www.lappcable.com>)

- Unitronic BUS DeviceNet Trunk Cable
- Unitronic BUS DeviceNet Drop Cable
- Unitronic BUS CAN
- Unitronic-FD BUS P CAN UL/CSA