

Room Alert.ro

Server Monitorizare Room Alert 32S / 32E - Iunie 2020



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Room Alert 32S / 32E

Functii principale

- ▶ Serverul Room Alert 32 este cel mai avansat server de monitorizare Room Alert;
- ▶ Poate fi utilizat pentru:
 - ▶ Monitorizare - Temperatura, Umiditate, Curent;
 - ▶ Detectie - Fum, Foc, Inundatie, Pana curent, Miscare, Usa deschisa, Geam deschis, Flux aer, Nivel apa/combustibil;
 - ▶ Automatizari - trimite comenzi pornit/oprit (On/Off) catre alte echipamente;
 - ▶ Notificari - EMail, EMail catre SMS, SMS, Pagini Web, Audio si Luminoase.



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Room Alert 32S / 32E

Aplicatii

- ▶ Folosit in mod frecvent pentru monitorizarea mediului in:
 - ▶ Centre de date,
 - ▶ Fabrici,
 - ▶ Depozite,
 - ▶ Cladiri de birouri,
 - ▶ Retail.



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Room Alert 32S / 32E

Specificatii principale

- ▶ 8 x port digital (conector RJ11), pentru senzori de temperatura si umiditate de orice tip;
- ▶ 16 x port pentru senzori de contact de tip Fum, Foc, Inundatie, Curent, Usa deschisa, Geam deschis, Flux aer, Nivel apa/combustibil;
- ▶ 2 x port pentru senzori analogici de Intensitate curent;
- ▶ 2 x port pentru comenzi echipamente externe (Relay);
- ▶ 2 x port pentru conectare adaptor comenzi externe sau turn semnalizare luminoasa si audio;
- ▶ Alimentare cu curent in doua moduri:
 - ▶ Cu adaptor 220V, aflat in pachetul de baza;
 - ▶ Din retea IT, folosind Power over Ethernet (PoE);
- ▶ Mini UPS integrat, care ii asigura functionarea timp de aproximativ 15 minute, in cazul in care se pierde alimentarea cu curent electric;
- ▶ Interfata Web HTTPS si conectare catre servere SMTP (Email) SSL (doar pentru Room Alert 32S).



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Room Alert 32S / 32E

Senzori interni



Senzori aflatii in interiorul Serverului Room Alert 32S / 32E



Senzor de
Temperatura



Senzor de
Umiditate



Senzor de
Curent



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Room Alert 32S / 32E

Conectare Senzori digitali



Maximum 8 x senzor extern de temperatura sau umiditate, de orice tip.



Temperatura
si umiditate
ecranat



Temperatura
si umiditate



Temperatura



Temperatura
pentru
fluide sau
medii
extreme



Temperatura
pentru
uz extern



Senzor de
Temperatura
si Putere
Activa



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

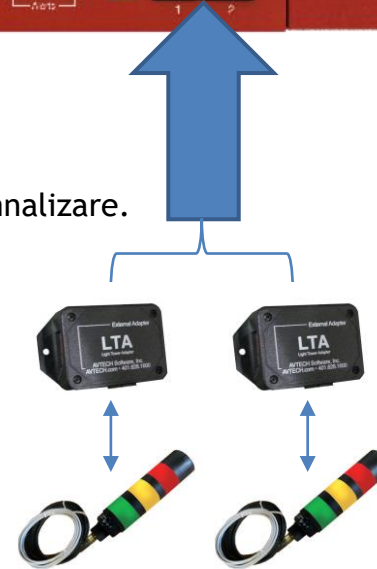
Romania

Room Alert 32S / 32E

Conectare Turnuri de semnalizare



Maximum doua turnuri de semnalizare.



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

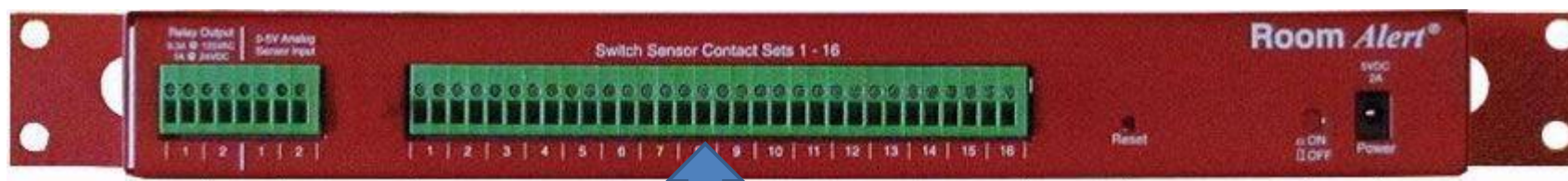
Bucuresti

Romania



Room Alert 32S / 32E

Conectare Senzori de contact



Maximum 16 x senzor extern de contact, de orice tip.



Senzor
Inundatie,
cu cablu



Senzor
Inundatie,
Tip Spot



Senzor
Fum / Foc



Senzor
Curent



Senzor
Miscare



Senzor
Usa deschisa
Geam deschis



Senzor
Flux aer



Senzor
Nivel
Combustibil
sau apa



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

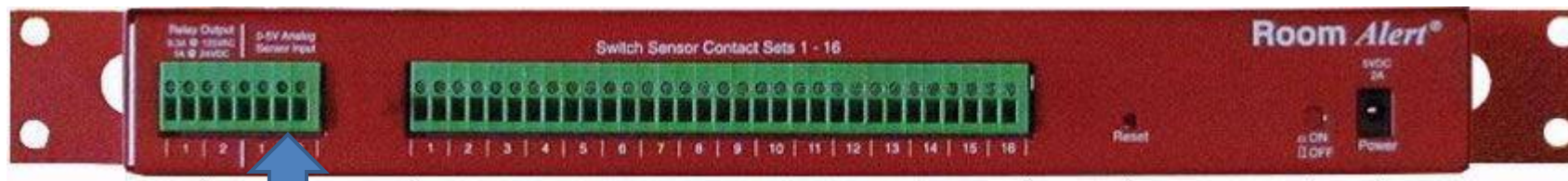
Atlas Systems

Bucuresti

Romania

Room Alert 32S / 32E

Conectare Senzori de intensitate curent



Maximum 2 x senzor extern de Intensitate curent, de orice tip.



Senzor
Intensitate
curent
50A

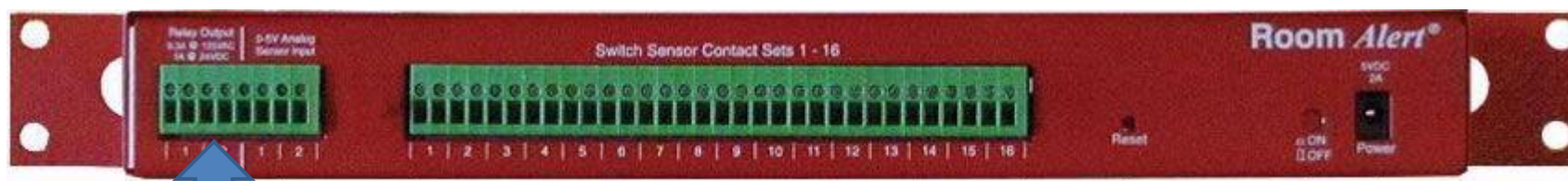
Senzor
Intensitate
curent
250A



IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805
Atlas Systems
Bucuresti
Romania

Room Alert 32S / 32E

Conectare echipamente pe porturi Relay



Unitate
de aer conditionat
care are conectori
de tip Relay
("Dry contacts").



iBoot
Poate porni/opri
orice echipament
care se conecteaza
la rețeaua de curent 220V.

Maximum doua aparate de aer conditionat sau orice alt
tip de echipament care poate fi pornit/oprit folosind
porturi de comanda de tip relay ("dry contacts").
Sau
Maximum doua comutatoare iBoot, care pot porni/opri
orice tip de echipament conectat la rețeaua de curent
220V.



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Room Alert 32S / 32E

Interfata - Pagina de start



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Room Alert®

Status

- Digital Sensors
- Switch Sensors
- Wireless Sensors
- Light Towers and Relays
- Analog Sensors

Settings**Help**

Example RA32

08/29/17 13:48:16

Type Room Alert 32E/W

MAC 1A:2B:3C:4D:5E:6F

Serial# RA32-4D5E6F

Firmware vX.X.X ✓

Local IP 192.168.2.115

Power Status **Main Power**

GoToMyDevices

Registered To AVTECH Example

Push is Enabled

Connected Last Push 08/29/2017 13:42:48

Sensors

Updates Every seconds

Fahrenheit ☒ Celsius ☐

⬆ Digital Sensors

✖ Data Center

Internal 1: Temperature / Humidity

Temperature

77.00 °F ▲ 77.36 °F
▼ 76.64 °F

Humidity

37.46 %RH ▲ 38.77 %RH
▼ 36.82 %RH

Hot Aisle 1A

External 1: Temperature / Active Power

Temperature

78.98 °F ▲ 79.26 °F
▼ 78.98 °F

Power State

Active

✓ AC Unit

External 2: Temperature / Humidity

Temperature

76.10 °F ▲ 76.64 °F
▼ 75.92 °F

Humidity

51.74 %RH ▲ 52.40 %RH
▼ 51.41 %RH

Atlas Systems
Room Alert
Authorized Reseller

11

Room Alert 32S / 32E

Interfata - Senzori digitali



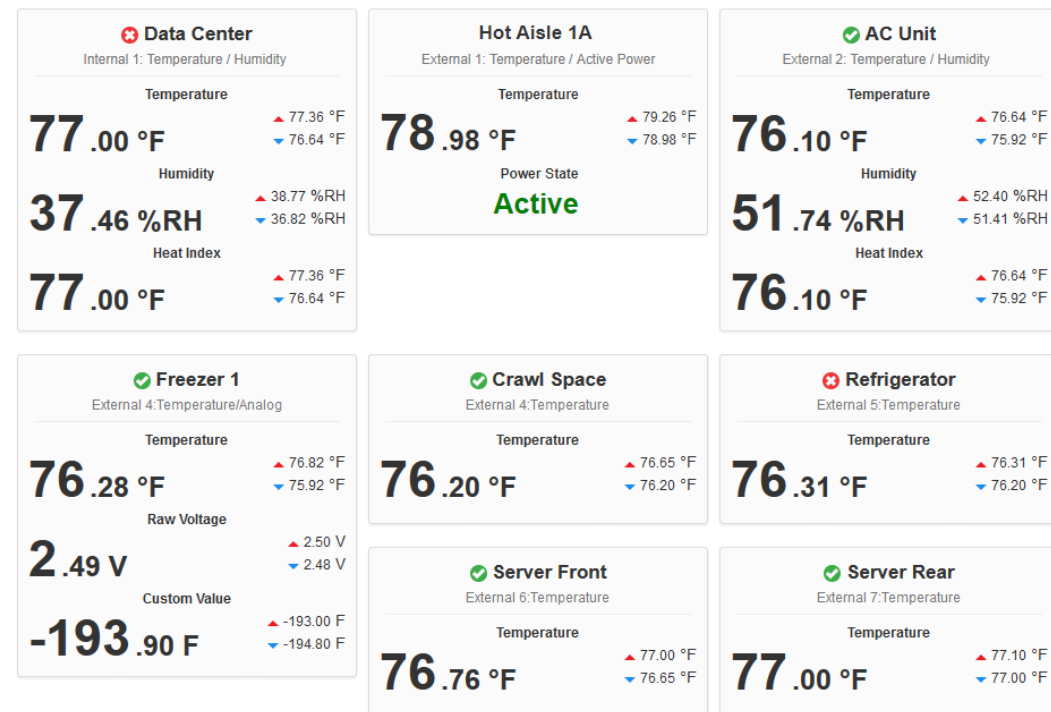
IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805

Atlas Systems

Bucuresti

Romania

Digital Sensors



Room Alert 32S / 32E

Interfata - Senzori de contact



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Switch Sensors

Power - Rack 1 Channel 1: Switch ✓ CLOSED	Smoke Data Ctr Channel 2: Switch ✓ OPEN	Rm Entry Door 1 Channel 3: Switch ✗ OPEN	Air Flow - AC Channel 4: Switch ✓ OPEN
Flood - Cable Channel 5: Switch ✓ CLOSED	Motion Data Ctr Channel 6: Switch ✗ OPEN	Panic Data Ctr Channel 7: Switch ✓ OPEN	Water Tank Channel 8: Switch ✓ OPEN
Fuel Tank Channel 9: Switch ✓ OPEN	Mini UPS Channel 10: Switch ✓ CLOSED	Power - Rack 2 Channel 11: Switch ✓ CLOSED	Smoke - Hall Channel 12: Switch ✓ OPEN
Rm Entry Door 2 Channel 13: Switch ✓ CLOSED	Air Flow - Vent Channel 14: Switch ✓ OPEN	Flood - Spot Channel 15: Switch ✓ CLOSED	Panic - Hall Channel 16: Switch ✓ OPEN

Wireless Sensors

Powered Wireless Sensor Hub 1 Name Attic Serial Number 64BDF9000001	Powered Wireless Sensor Hub 2 Name Basement Serial Number 4B10DC000001	Wireless Sensor Hub & Powered Relay 3 Name Annex - South Serial Number F705DC000002
--	---	--



Room Alert 32S / 32E

Interfata - Turn semnalizare



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Flood - Cable
Channel 1: Switch
OPEN

Light Towers and Relays

Inside DC
Light Tower
Alarm 1
Alarm 2
LTA Relay
Off

AC and Fans
Relay Status
Relay 1
On
Relay 2
Off
Relay 3
Off
Relay 4
Off
LTA Relay
Off

Pump 1 Control
Relay Status
Channel 1: Relay
On

Pump 2 Control
Relay Status
Channel 2: Relay
On

Analog Sensors

AC Power Draw
Internal 1: Analog
Raw Voltage
2.50 V
Custom Value
125.00 A

Freezer 2
Internal 2: Analog
Raw Voltage
2.62 V
Custom Value
-182.20 F



Room Alert 32S / 32E

Interfata - Configurare senzori digitali



IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805
Atlas Systems
Bucuresti
Romania

Room Alert®

Status

Settings

Sensors

Alarms

Network

SMTP

SNMP

Security

Advanced

Help

Sensor Settings

General Alarm Configuration

Trigger Alarm If Sensor Is Disconnected? ☐

Alarm Thresholds

Internal Sensor Alarm Configuration

Sensor Type: Temp/Humidity

Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low	Adjust
Data Center	Temperature (°F)	81	64	0
☐ Monitor Heat Index	Humidity (%RH)	60	40	0

Sensor 1 Alarm Configuration

Sensor Type: Temp/Active Power

Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low	Adjust
Hot Aisle 1A	Temperature (°F)	0	0	0
	Power	No Power Detected		

Sensor 2 Alarm Configuration

Sensor Type: Temp/Humidity

Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low	Adjust
AC Unit	Temperature (°F)	79	64	0



Room Alert 32S / 32E

Interfata - Configurare Senzori de contact



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Switch Sensor Settings

Sensor 1 Label Power - R:	Alarm On Open	Alarm Profile Profile 1
Sensor 2 Label Smoke Da	Alarm On Closed	Alarm Profile Profile 1
Sensor 3 Label Rm Entry I	Alarm On Open	Alarm Profile Profile 1
Sensor 4 Label Air Flow -	Alarm On Closed	Alarm Profile Profile 1
Sensor 5 Label Flood - Ca	Alarm On Open	Alarm Profile Profile 1
Sensor 6 Label Motion Da	Alarm On Open	Alarm Profile Profile 1
Sensor 7 Label Panic Da:	Alarm On Closed	Alarm Profile Profile 1
Sensor 8 Label Water Tan	Alarm On Closed	Alarm Profile Profile 1
Sensor 9 Label Fuel Tank	Alarm On Closed	Alarm Profile Profile 1
Sensor 10 Label Mini UPS	Alarm On Open	Alarm Profile Profile 1
Sensor 11 Label Power - R:	Alarm On Open	Alarm Profile Profile 1
Sensor 12 Label Smoke - H	Alarm On Closed	Alarm Profile Profile 1
Sensor 13 Label	Alarm On	Alarm Profile
Sensor 14 Label	Alarm On	Alarm Profile
Sensor 15 Label	Alarm On	Alarm Profile



Room Alert 32S / 32E

Interfata - Configurare Senzori analogici



IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805

Atlas Systems
Bucuresti
Romania

Analog Sensor Settings

Analog Sensor 1 Alarm Configuration

Sensor Label	High	Low	Adjust	Enabled
AC Power Draw	140.0	0	0	☒
Use Alarm Profile: Profile 1				

Enable ☒	High	Low
Reference	5	0
Scale	250	0
Units	A	

Analog Sensor 2 Alarm Configuration

Sensor Label	High	Low	Adjust	Enabled
Freezer 2	14.0	-220.0	0	☒
Use Alarm Profile: Profile 1				

Enable ☒	High	Low
Reference	5	1
Scale	32	-328
Units	F	

Switch Sensor Settings

Sensor 1 Label	Alarm On	Alarm Profile

Sensor 2 Label	Alarm On	Alarm Profile

Sensor 3 Label	Alarm On	Alarm Profile



Room Alert 32S / 32E

Interfata - Configurare Alerte



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Room Alert[®]

Status

Settings

Sensors

Alarms

Network

SMTP

SNMP

Security

Advanced

Help

Alarm Settings

LTA 1 Label

Inside DC

LTA 1 Connected

Red/Yellow/Green w/ Audio

Relay 1 Label

Pump 1 Control

LTA 2 Label

AC and Fans

LTA 2 Connected

Relay

Relay 2 Label

Pump 2 Control

Profile 1

Choose an Alarm or Boot Profile to view or edit.

LTA 1 Action Configuration

Profile 1	Red LED	Yellow LED	Green LED	Audio 1	Audio 2	LTA Relay
On Alarm	On	Off	Off	On	Off	Off
On Clear	Off	Off	On	Off	Off	Off

Relay 1 Action Configuration

Profile 1	Relay
-----------	-------

LTA 2 Action Configuration

Profile 1	Relay 1	Relay 2	Relay 3	Relay 4	LTA Relay
On Alarm	On	Off	Off	Off	Off
On Clear	Off	On	On	On	Off

Relay 2 Action Configuration

Profile 1	Relay
-----------	-------



Room Alert 32S / 32E

Interfata - Configurare Retea



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania

Room Alert[®]

Status

Settings

Sensors

Alarms

Network

SMTP

SNMP

Security

Advanced

Help

Network Settings

Device Name

Example RA32

IP Address Configuration

Obtain IP Address Automatically

Auto Configuration Methods

BOOTP

DHCP

AutoIP

Use The Following IP Configuration

IP Address

Subnet Mask

Default Gateway

DNS Server IP

Ethernet Configuration

MTU Size

1024

Auto Negotiate

Speed

100 Mbps

10 Mbps

Duplex

Full

Half

Gratuitous ARP Broadcast



Room Alert 32S / 32E

Interfata - Configurare SMTP (Email)



IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805
Atlas Systems
Bucuresti
Romania

Room Alert®

Status

Settings

Sensors

Alarms

Network

SMTP

SNMP

Security

Advanced

Help

Email Settings

[How To Set Up Email In Room Alert \(FAQ\)](#)

Email Enabled

☒

Email Footer Enabled

☒

Use SMS

☐

Mail Server:

Domain Name/IP

mail.server.com

Port

25

Timeout

5

Return Address
(From)

You@YourOrganization.com

Email Recipients
(Separated By Comma)

ITMgr@YourOrganization.com

Display URL Enabled

☒

Display URL

192.168.2.115



Room Alert 32S / 32E

Interfata - Configurare SNMP



IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805

Atlas Systems
Bucuresti
Romania

Room Alert®

Status

Settings

Sensors

Alarms

Network

SMTP

SNMP

Security

Advanced

Help

SNMP Settings

SNMP Configuration

Community Name

public

☐ Use 2 digit SNMP

Contact (sysContact)

Location (sysLocation)

MIB File

[Download SNMP MIB File](#)

SNMP Trap Sending Configuration

Trap Send IP 1

192.168.2.100

Trap Send IP 2

0.0.0.0

Trap Send IP 3

0.0.0.0



Room Alert 3E

Device ManageR si Notificari SMS



IoT for Smart City

www.RoomAlert.ro

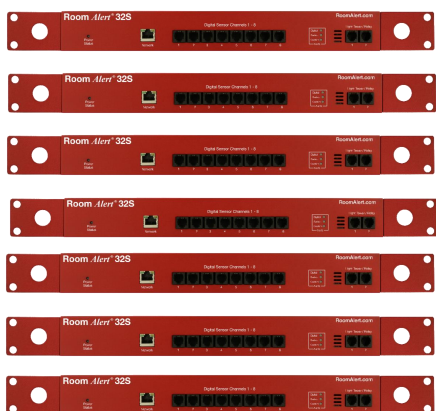
admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Servere Room Alert
din aceeasi retea
cu serverul pe care este
instalata aplicatia
Device ManagerR.



Device ManagerR
Aplicatie Web -
Centralizator Servere si Sensori Room Alert.
Necesita un Server cu
sistem de operare Windows / Linux.



Modem GSM - Pentru trimitere SMS-uri.
Conectat pe portul USB
al Serverului
pe care este instalata aplicatia
Device ManagerR.
Necesita un card SIM .



Room Alert 32S

Continut Pachet livrare



Server Room Alert 32S



BONUS!
Senzor
de temperatura
si putere activa
cu
lungime cablu 3m



BONUS!
Senzor
de temperatura
cu
lungime cablu 7m



Adaptor de
curent 220V



Cablu
de retea



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Room Alert 32E

Continut Pachet livrare



Server Room Alert 32E



BONUS!
Senzor
de temperatura
si putere activa
cu
lungime cablu 3m



Adaptor de
curent 220V



Cablu
de retea



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Avantaje ale unor solutii Room Alert

- ▶ Varietatea caracteristicilor de mediu care pot fi monitorizate de sistemele Room Alert:
 - ▶ Temperatura, Umiditate si Curent - Monitorizare;
 - ▶ Fum, Foc, Inundatie, Pana curent, Acces, Flux aer, Nivel apa/combustibil - Detectie;
- ▶ Monitorizare sau Detectie de la distanta, in timp real;
 - ▶ Notificari: EMail, EMail catre SMS, SMS, Semnale luminoase si audio;
 - ▶ Istoric date in cloud, accesibil de oriunde, folosind orice dispozitiv;
 - ▶ Automatizari - comenzi pornit/oprit (On/Off) catre alte echipamente;
- ▶ Solutii scalabile;
 - ▶ Posibilitatea adaugarii in sistemul centralizat de monitorizare a unor Servere sau Senzori noi.
- ▶ Nu necesita Statii de lucru sau Servere pentru soft-uri aditionale;
 - ▶ Cu exceptia situatiei in care se doreste instalarea aplicatiei Device Manager.



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Avantaje ale unor solutii Room Alert

- ▶ Solutii mature:
 - ▶ Peste 40 de ani de experienta in dezvoltarea acestor solutii;
 - ▶ Premiate in mod constant in ultimii ani;
- ▶ Solutii comercializate in peste 180 de tari catre clienti cu renume;
- ▶ Unul din cele mai bune rapoarte Calitate-Pret;
- ▶ Produse fabricate de catre Avtech Software (SUA).



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Beneficii ale unor solutii Room Alert

- ▶ Continuitatea afacerii prin prevenirea dezastrelor:
 - ▶ Reducerea costurilor aparute datorita opririi activitatii si distrugerii activelor;
 - ▶ Protejeaza activele companiei;
- ▶ Suport pentru:
 - ▶ Procesele de Audit, Control sau Inspectie prin salvarea datelor in cloud-ul Room Alert;
 - ▶ Implementarea Standardelor de Securitate ISO (Ex. ISO 27001).



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



- Romania

Premii internazionale Room Alert 2017 - 2018



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Premii internationale Room Alert 2019 - 2020



Best in Environment
Monitoring Solutions, 2020
Corporate Excellence
Awards 2020



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Cienti Room Alert Internationali



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Cienti Room Alert din Romania



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



Despre Atlas Systems

- ▶ Reseller autorizat Avtech Software - SUA;
- ▶ Capital integral romanesc;
- ▶ 15 ani de experienta in IT-ul din Romania.
- ▶ CIF (VAT No.): RO18177081;
- ▶ Numar de inregistrare in Registrul Comertului: J40/20164/2005;
- ▶ Banca: ING - 13 Septembrie;
- ▶ IBAN: RO55 INGB 0000 9999 0255 4319.



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania



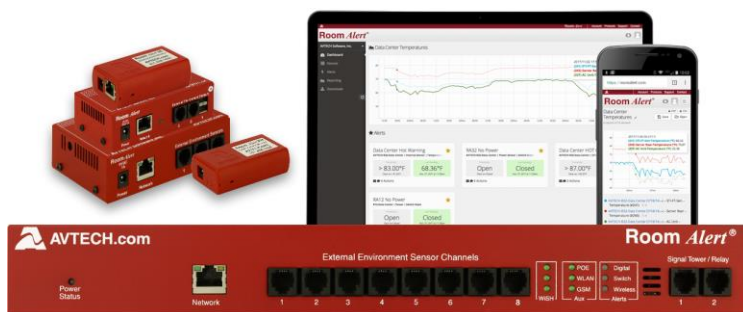
Contact

- ▶ Telefon: 004 0724 375 805;
- ▶ Email: admin@RoomAlert.ro;
- ▶ Site Web: www.RoomAlert.ro;
- ▶ Adresa: Str. Iovita, Nr. 11, Et. 2, C10, Sector 5, (cartier Panduri), Bucuresti, Romania, 050686.



IoT for Smart City
www.RoomAlert.ro
admin@RoomAlert.ro
004 0724 375 805
Atlas Systems
Bucuresti
Romania





Sfarsit

Va multumim pentru atentie!



IoT for Smart City

www.RoomAlert.ro

admin@RoomAlert.ro

004 0724 375 805

Atlas Systems

Bucuresti

Romania