# AALTO CONTROL WIRELESS MONITORING UNIT FOR WALL-MOUNTING

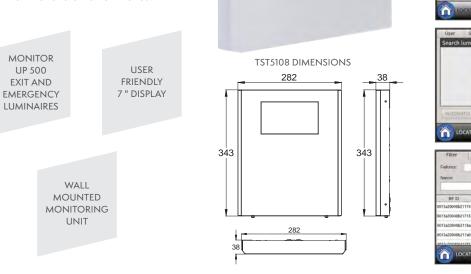
TST5108

AALTO



Wireless Monitoring Unit for Emergency Lighting

With Aalto Control Wireless Monitoring Unit (WMU) you can monitor and control self-contained Aalto Control luminaires, both ESCAP luminaires and luminaires with batteries. The monitoring unit, with an easy-to-use 7" touch screen and a clear user interface, is mounted permanently on the wall. Aalto Control WMU has an indoor range of 40 meters to the nearest luminaire, the same as from luminaire to other luminaires.



¥

AALTO CONTROL LUMINAIRES

	Product code	Product description
	TST5108	Aalto Control WMU, Wireless Monitoring Unit (wall mounted)
	TST5103	Aalto Control Wireless / Ethernet Coordinator (2-pin "Europlug"), (TST5103B=3-pin "UK-plug")
	TST5105	Aalto Control Signal Amplifier (can be used if the distance between luminaires exceeds 40 m) (2-pin "Europlug"), (TST5105B=3-pin "UK-plug")

#### AALTO CONTROL WMU FEATURES

- Works independently, without a separate PC or Coordinator
- Possibility to add one external Coordinator via Ethernet
- Functions on AC power, does not interfere with the electrical supply to the luminaires
- History data files of the luminaires can be stored on a USB stick
- Prohibition times can be defined for luminaire and duration time tests
- Definable and selectable levels of user access
- Saving of luminaire and location information and the test history in a database
- The relay output with indication of fault condition enables the transmission of fault information into other systems

#### TECHNICAL DATA

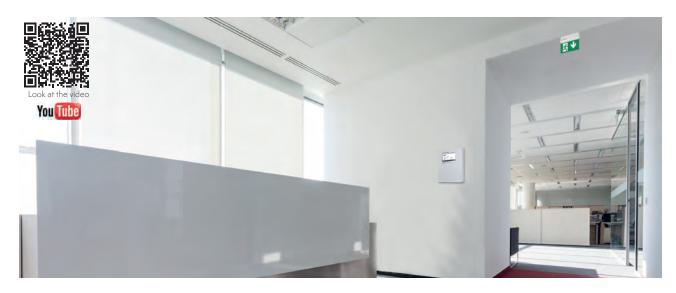
Frequency	2,4 GHz
Transmitter power output	3,1 mW
Receiver sensitivity	-100 dBm
Indoor range	up to 40 m
Outdoor range	up to 80 m

#### CERTIFICATION OF WIRELESS TECHNOLOGY USA (FCC Part 15.247) Industry Canada (IC)

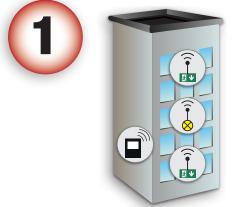
Europe (CE) ETSI

RoHS compatible

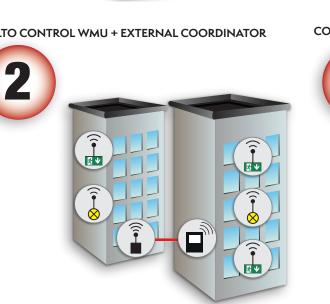
# **AALTO CONTROL WMU** SYSTEM COMPONENTS



#### AALTO CONTROL WMU BASIC SYSTEM LAYOUT

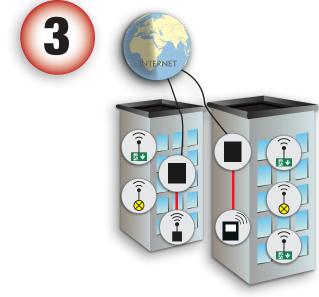


AALTO CONTROL WMU + EXTERNAL COORDINATOR



 $\widehat{\widehat{\bullet}}$ • Emergency light Exit light - 23 ♥ Aalto Control M Aalto Control Wireless External Coordinator Monitoring Unit TCP/IP Connection TCP/IP Connection (Existing Local Area (via Internet) Network can be used) Internet node (modem, router, switch etc.)

#### CONNECTION VIA INTERNET



### AALTO CONTROL WIRELESS CENTRAL **MONITORING FOR SELF-CONTAINED LUMINAIRES**



### WIRELESS CENTRALISED REMOTE MONITORING OF SELF-CONTAINED EMERGENCY AND EXIT LIGHTS

Aalto Control remote monitoring enables the monitoring of self-contained luminaires wirelessly in a centralized manner. System does not require data cabling from one luminaire to another. Local power supply to the luminaires is enough.

Installation is simple and luminaires can be easily positioned, even together whilst during renovations. Each luminaire

ż

is a network node. It sends and receives messages to and from other luminaires. The signal penetrates light partition walls and doors, and moves with ease from one floor to another via stairways.

Aalto Control is very fault tolerant. It uses the network only for data collection. The network does not affect the operation of the luminaires. Aalto Control compatible luminaires have the letter A in the end

#### SIGNAL IS TRANSMITTED FROM LUMINAIRE TO LUMINAIRE

In the Aalto Control network, each luminaire is a network node. Luminaires send and receive messages and in addition forward messages from other luminaires. In this way, each emergency and exit light expands the network. The typical range in open indoor areas is up to 40 m.

of the product code. Aalto Control luminaire always includes the Lumi Test self testing feature. Up to a maximum of 800 luminaires per coordinator can be connected into one system.

Aalto Control 4.x PC software and the system allows for several different coordinators and networks to be added into single Aalto Control system.

#### SIGNAL AMPLIFIER

The signal amplifier, which is connectable to mains current, can be used in places where signal transition is made difficult, for example, by a particularly thick wall or other obstacle.



#### THE SIGNAL IS TRANSFERRED FROM ONE FLOOR TO ANOTHER.

The signal is transferred in the stairwells from one floor to another. Also emergency and exit lights in stairwells contribute to the signal transmission. Signal is able to pass through typical concrete floor structures, if on the next floor the luminaire is placed directly above or below.

#### SYSTEM EXPANSION

Several Wireless / Ethernet Coordinators (Max. 30 pcs) can be connected into the system, for example when you want to split the system and the network into different buildings.

### THE SIGNAL PASSES THROUGH WALLS

The signal penetrates the normal partitions and doors. The walls normally weaken the signal range, depending on the wall material.



#### WIRELESS/ETHERNET COORDINATOR

In the Aalto Control 4.x system, PC and Wireless / Ethernet Coordinator can freely be positioned, for example in another room or building. The connection is established via the Ethernet interface. It is good if the Coordinator is located in the so called center of the network.

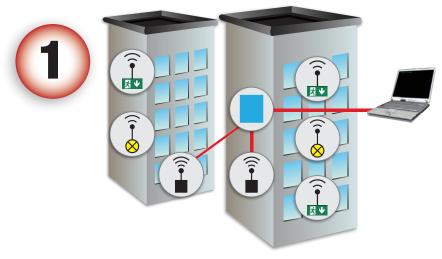
### ALL AT A SINGLE GLANCE



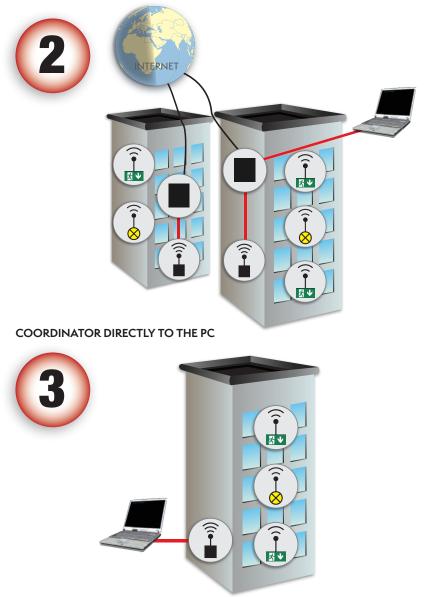
Aalto Control software collects the system data from all the luminaires. The software stores the luminaires' test results and they are easily browsable from a selected time period. The PC software has a user friendly mapping function, which makes it easy to check the status of the luminaires. Adding additional luminaires and removing them is effortless.

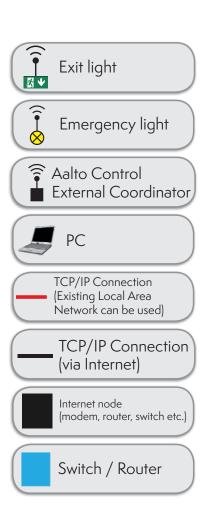
# AALTO CONTROL PC SYSTEM LAYOUT

#### TYPICAL AALTO CONTROL PC SYSTEM



VIA INTERNET TO THE AALTO CONTROL PC SYSTEM





# AALTO CONTROL PC SYSTEM FEATURES

### Aalto Control 4.x PC System features

- Up to 5,000 luminaires in the system
- Max 800 luminaires per Coordinator
- Centralized remote management of several Aalto Control Wireless / Ethernet Coordinators, from one location
- The system can be decentralized into different sections, e.g. in different buildings
- The system components can be freely positioned in Ethernet network
- Wider operating range using Signal Amplifiers in challenging locations
- Renewed graphical layout
- Improved user interface
- Display of luminaire data with RFID code, luminaire's name, location, or freely selectable text fields
- Detailed information about the luminaires is displayed on the layout drawing, by using the mouseover function
- Input of the luminaire data from a CSV file, manually, using a barcode reader or the automatic search function







Aalto Control PC software









TECHNICAL DATA			
Frequency	2,4 GHz		
Transmitter power output	3,1 mW		
Receiver sensitivity	-100 dBm		
Indoor range	up to 40 m		
Outdoor range	up to 80 m		

#### WIRELESS TECHNOLOGY CERTIFICATES

USA (FCC Part 15.247)	
Industry Canada (IC)	
Europe (CE) ETSI	
RoHS compatible	