

Home Automation

your journey starts here...



Automate Your Home works with your plan

Automate
Security
Heating & Cooling
Anti-Theft
Remote Control & Monitoring
Scheduling & Programming
Lighting Control
Energy Monitoring



NATC Home Automation Complete Solution for Control & Security

NATC Home Automation is a packaged solution to automate and convert your house into an intelligent future home. It's a system to automate your lighting, entertainment, security, climate and it is accessible through HMI which is installed to any PC. It may be installed in new or existing home cabling structures and controlled via your smartphone or tablet with internet access. This means with a simple hardware upgrade you can be controlling your custom designed home from anywhere around the world.

A Centralized Control System

NATC System is a centralised control system which means all the inputs and outputs are wired to the controller of the system. The solution is an open source control system that allows you to connect any digital or analog device to control and secure your home. It provides home automation and security (control and monitoring) and improves the energy efficiency of your home, by doing so making your life easier. NATC system is based on controllers developed by world leading automation manufactures; Allen Bradley – Rockwell, Siemens and Omron. NATC system is an open control system, which means it is vendor independent and can be connected to any input such as light switches, photo sensors, PIRs, proximity switches, modem signals, room thermostats, thermocouples and basically any digital or analog input device. Based on the input signal the controller can control any digital or analog device such as lights, electrical operated doors, curtains, alarm output devices, heating system or units, awnings, surveillance systems, etc. The control system is expandable and connect to multiple controllers via Modbus or Ethernet network. It can be installed in most of the old houses by modifying and extending the wiring of the house.

Also it is suitable for off power grid homes where the only source of power is wind or solar energy. Electrical installation drawing is provided. The controllers are industrial rated and are widely available in the market, which makes the system robust and reliable.

Customised Programming

The controller can be programmed and customized according to your needs. NATC liaise with its products suppliers and can provide full support for its products and services during and after the warranty period. By arming the NATC security system, on leaving your house, you can be absolutely certain that it will automatically "shut down" the house, giving you peace of mind that you have not left anything on. When you come home, disarming the NATC security system, will set lighting or any other custom feature, which is preprogrammed to welcome you home.

System Functions

- Home Alarm Security system (30 inputs, 2 Outputs)
- Lighting Control Auto/Manual (42 Outputs, 29 Inputs).
- Lights Simulation Program (During absenteeism)
- HVAC Control, water based Heating System (5 Temperature inputs and 4 relay outputs)
- Scheduled Programming, four programs per output. Default 4 Outputs (custom)
- Smart sensor monitoring function, such as fire alarm warning feature, photoelectric sensor input, wind sensor reading, etc.
- Inverter function for off grid homes.

System Characteristics

- Low Energy Consumption Control System. Total Power Consumption 15 W (Based on 4 Input and 4 Output Control modules, Total of 76 Digital Inputs & 76 Digital Outputs - custom)
- PC Based friendly Human Machine Interface (HMI)
- Remote control and monitoring via Smart phones and Tablets from anywhere in the world via internet

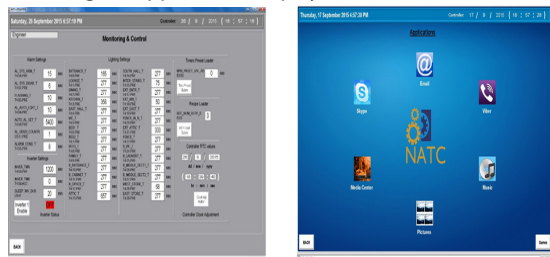
Services

The control system is designed to customer needs.

NATC offer the following services:

- New Building Automation System including, Project Management, Installation and Commissioning
- Ongoing Support
- Remote access via internet client
- Emergency Breakdown and Callout services

Main Page & Application Displays

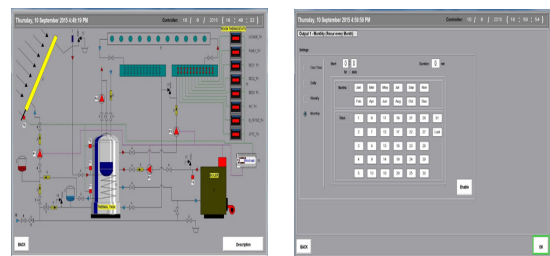


Home Alarm Security System

The Home Alarm Security System is fully customisable to our customers' needs through a PC software. The starting package has 3 settings and many features as follows:

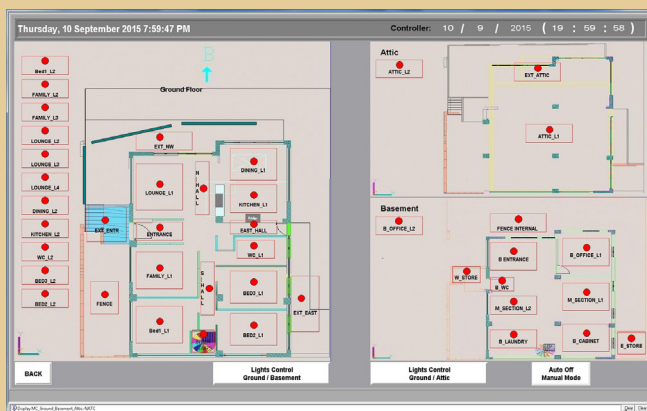
- Maximum security, where the whole property, including the building is secured.
- Perimeter security, where the perimeter of the property is locked and no entry to the property is allowed (Night mode), but the house is still occupied.
- Selective security, where the customer can choose certain zones to be secured.

Features include: real time monitoring through PC, alarm and event summary, data logging, alarm and event log viewer, alarm outputs, sleep mode, auto SET alarm arming feature after a certain time (custom), which energizes the alarm maximum protection mode, in case the alarm is forgotten to be initialized when leaving home, and remote access via smart phones, etc.



HMI Basic Displays

- Main
- Alarm System
- Alarm and Event Summary
- Alarm and Event Log Viewer
- Alarm History Database
- Automatic/Manual Light Control
- Anti-theft - Lights Simulation Program
- Heating & Cooling Control
- Time scheduling events triggering
- Energy Consumption
- Maintenance Display
- Inverter Display



Lighting Control

The Lighting Control system has two modes, Auto and Manual. When the Auto mode is selected the lights will turn ON automatically when the PIRs detect motion in the rooms. When there is no motion the lights will turn OFF automatically after specified time (custom). When in Manual mode, the lights can be controlled from the software switches through the HMI or the hardware normal switches.

Smart Sensor Monitoring

Various sensors can be connected to the controller to provide valuable information to increase the security and also the energy efficiency of the system. Photoelectric sensor signal can automatically switch ON or OFF the external lights hence avoiding the unnecessary energy consumption, or a wind sensor signal can automatically retract the awnings in case of sudden wind increase, or fire alarm signal to send you message to your mobile, etc.

Lights Simulation Program

Our Anti-theft lighting simulation program, is an extra feature of our Home Automation Solution, a program that simulates motion within the building during absenteeism. It is accessible through the systems software and you only need to enter the number of Days which the building will be vacant and press the SET button on the corresponding display to initiate it. This feature is ON as soon as the alarm is activated.

The Anti-theft lighting simulation program is fully customisable and allows the user to create custom paths (movements) within the building. When the system is active, the program selects random paths and corresponding time duration and executes them giving the impression that someone is in the house.

Through our extensive trade networks we offer and supply all the products included in our Automation solution. For your specific needs please call our office to speak with one of our engineers who will be happy to assist you with selecting the right product for your application.

Service Contact Information:

Call 0414 744 677 for more information

www.natc.com.au



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HVAC Control

NATC Solution provides heating and cooling control to water based and also to ducted heating systems. The controller receives the signal from the room thermostats and controls the various valves in order to adjust the room temperature to required temperature SET point. NATC Solution also incorporates the connection of solar collectors with the boiler and the central heating in order to increase the efficiency of the system.

Scheduled Output Programming

The controller has 4 schedules to control 4 outputs (can be customized according to your needs), in order to start any device based on time, such as lights, heating, system, etc.

Energy Consumption

This feature measures the KWs consumed and creates the graph KWh/Time.