



Feel the touch

***tci*** ambiente

# A new function and design experience

## Simply easy

The way we live and work depends on our own ideas and visions. The engineers and designers at tci employ all of their creativity and passion to develop stylish touch panel systems for building automation. Whether you choose ambiente, mura or amena – you expect nothing less than perfect functionality coupled with a unique timeless design.

It's a good thing when everything is controlled by well thought-out technology. It's even better when a touch panel blends in harmoniously with your interior decoration. But it's simply perfect when you can operate everything easily and just by intuition. Step into the world of modern building automation and implement modern energy-efficient solutions with touch panels and servers from tci.

### Industrial Computers

Made in Germany

In our Industrial Computers division you will find intelligent solutions with a unique level of reliability for industrial automation applications.

[www.tci.de](http://www.tci.de)



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# Why Smart Home

## Smart Home is worthwhile – Enjoy convenience and save money at the same time

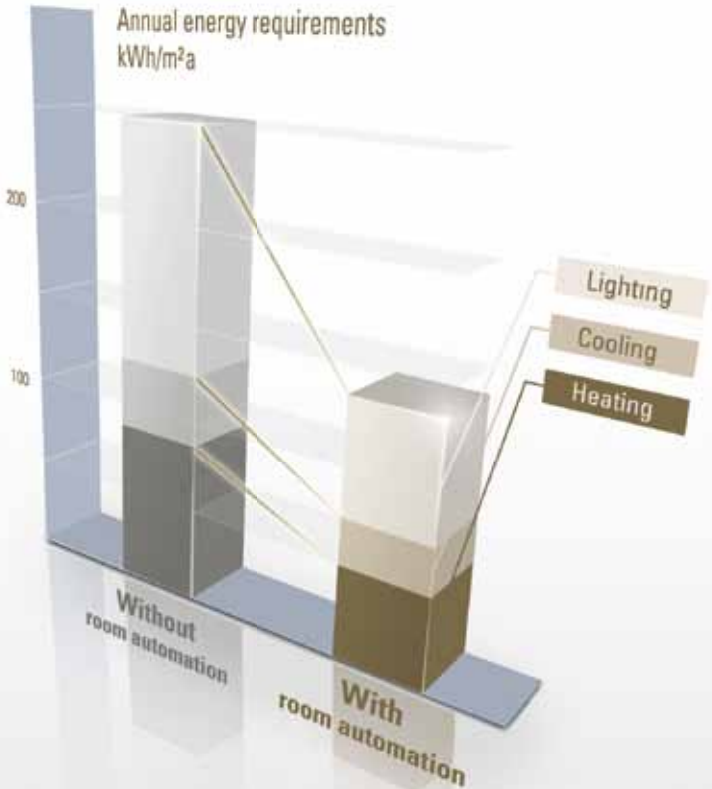
Opt in favour of a solution which will save you money in the long term - choose a perfectly designed and professionally installed Smart Home. At the same time, enjoy enormous flexibility and secure your investment while luxuriating in total comfort.

Independent studies have shown that investments in building automation are amortised by energy savings much faster than conventional solutions. Ideal controllers activate heating systems, ventilation, shading systems, lights and other electronic consumers exactly according to your daily routine. Even when you are not at home.

Not only that, you remain flexible and can make all the settings to fit in perfectly with your lifestyle thanks to the central controller – without having to make any structural changes to your house or building.

You will come to realise how quickly your new Smart Home becomes profitable for you.

- Comfort
- Economy
- Flexibility
- Safety



Sector	Perfect measures	Potential savings	Amortisation time
Operation	User behaviour, energy savings, "Active energy management"	5 to 20 %	0 to 5 years
Systems engineering	HVAC, refrigeration, lighting, control, drive systems, trigeneration (power/heat/cold)	10 to 60 %	2 to 10 years
Building shell	Insulation, windows, thermal bridges, structural physics	> 50 %	10 to 60 years

Graphic source: "Investigations on potential energy savings through the use of open building automation systems based on analysis as per DIN 18599 and prEN 15232." Client: LonMark Germany, Contractor: University of Biberach, Faculty of Building Engineering/Authors: Prof. Dr. Martin Becker and Dipl.-Ing (FH) Peter Kroll | Table: Overview of typical amortisation times, source: HLH article Part 1\_No. 2 – 2 February 2008

# Why touch panels

## Standardised operation with style

Touch panels can be used to implement complete operation concepts with a standardised user interface. No matter whether you want to open the door, close the blind or switch the light on – operation is always based on the same principle.

## The basis for control is child's play

Simply touch self-explanatory symbols. You can even control several lamps at the same time – in the whole house, if you want to! Saving a setting you like is child's play, too. This is how you achieve pleasurable comfort and maximum flexibility in your home.

### Security counts

In comparison with mobile devices such as smartphones or tablets, permanently installed touch panels offer **greater security** – in multiple respects:

- Private sphere – using LAN instead of WLAN prevents security gaps due to the applied technology.
- Availability – our touch panels are 24/7 capable, running stable in operation around the clock.
- Investment protection – industrial solutions are durable and spare parts can be purchased subsequently for years.



[www.ambiente.de/200](http://www.ambiente.de/200)



## Reliability and extremely long durability

The modular design of our systems including the tci baseboard and CPU module provides you with an extremely reliable, cableless system set-up that comes with a long service life.

## Identity card

The removable identity card contains all the important contact details on the front and the complete system configuration and serial number on the rear. It ensures uncomplicated rapid processing in case of service or if you add an expansion.

## Individual solutions – tailor-made for your home

Experienced tci engineers develop tailor-made solutions based on your ideas and meet the highest demands on design, functionality, quality and reliability.

## PreVision Control

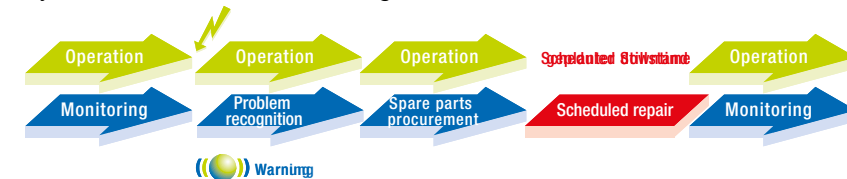
“Prevention is better than cure” – what is good for people also applies to computers in building automation. Our intelligent Condition Monitoring PreVision Control continuously monitors all relevant system parameters. The system is designed for maximum availability as it is equipped with a **prediction feature** that warns about imminent failure. It also has a **remote diagnostic** function.



## System **without** Condition Monitoring



## System **with** Condition Monitoring





# What are the possibilities

## I. Basic functions

### Much more than just a digital switch

The main elements are maintained under simple and reliable control over bus systems such as KNX, LON or BACnet. You can make all the key settings quite simply by yourself according to your wishes.

- Light (switches, programmable scenarios)
- Blind control (switches, weather-related control, programmable control)
- Heating control (simple control, combined with window control)

## II. Additional benefits – IP-based

### For information and entertainment

Thanks to the network, you have the flexibility to decide what else you want to operate using your touch panel. Expansions are possible at any time.

- Video (TV, DVD)
- Audio (music, radio)
- RSS feeds (weather forecasts, news)



[ Control window positions and heating system ]



[ Multimedia contents from various sources ]

# What are the possibilities

## III. Communication – contatto

### For more convenience and safety

Now you can see at any time who is standing at your door – even before you spoke a word. You decide whether you want to answer the bell or rather enjoy the peace and quiet. You can open the door to friends from any room or you can simply let unwanted visitors move on.



SSS SIEDLE

TCS



- Audio and video transmission
- Open doors
- Additional cameras can be integrated
- Certified for many manufacturers such as Mobotix, Siedle, TCS, Baudisch
- Door communication
- Security (alarm camera, video surveillance)
- Room-to-room communication
- Video conferences, Skype, VoIP



## Design Multitouch

Continuous genuine glass surface

- Superior design
- Basis for intuitive operation

For the models mura and amena



## mura22W-GT

mura – The flush touch family has grown

- 22" Widescreen – generous space
- Up to Core i7 – breakneck performance
- Multitouch with continuous glass surface – intuitive operation



▶ [www.ambiente.de/523](http://www.ambiente.de/523)

## amena70-VI

Android touch panel

- All apps available. Weather, mail, movies, radio,...unlimited
- Security thanks to industrial quality level
- Safety of private sphere due to LAN instead of WLAN
- Multitouch with continuous glass surface – intuitive operation



Flush in the wall

▶ [www.ambiente.de/531](http://www.ambiente.de/531)

## amena70-XU

Touch panel in a standard flush box

- Large 7" touch panel for mounting in standard flush box
- Thereby flat in front the wall



▶ [www.ambiente.de/532](http://www.ambiente.de/532)

## sospeso

Touch panels for on-the-wall installation

- Design touch panel to mount on the wall, e.g. on fairfaced concrete
- With brushed aluminum surface
- 16:9 Widescreen, 10" and 16"



▶ [www.ambiente.de/570](http://www.ambiente.de/570)

## XS-Technologie

Touch panel including client software for building automation with CoDeSys, PLCs and other servers.

- Very favourable
- Yet extremely reliable
- And at the same time powerful
- CoDeSys, Wago, Beckhoff, Simatic,...



▶ [www.ambiente.de/580](http://www.ambiente.de/580)



# Product overview

## ambiente

Design-oriented touch panel PCs for gallery mounting and building control

- Numerous design variants
- Elegant aluminium housing
- High performance with Intel ATOM CPU



▶ [www.ambiente.de/510](http://www.ambiente.de/510)

## mura

Ultra flat touch panel PCs

- 16:9 or 4:3
- 8" to 22"
- Multitouch with continuous glass surface – intuitive operation
- Flush-mounted installation



▶ [www.ambiente.de/520](http://www.ambiente.de/520)

## contatto

One Touch for two worlds - building control and (door) communication

- Access to various door stations like Mobotix, TCS, Siedle, Baudisch,...
- Same time open to building control with Elvis, Gira, NXA, Berker,...
- VoIP, SIP



▶ [www.ambiente.de/550](http://www.ambiente.de/550)

## amena

Low-cost touch panel as intelligent substitute for conventional switches

- 3.5" or 7" touch screen
- Handsfree intercom PTT button
- Flush mounting
- Glass touch screen



▶ [www.ambiente.de/530](http://www.ambiente.de/530)

## iBiento

16" multitouch with excellent performance and low energy consumption

- Sophisticated design
- Desktop unit
- Maximum 11 W power consumption



▶ [www.ambiente.de/540](http://www.ambiente.de/540)

## Server

Universal server PCs in various designs

- Rugged and long service life
- From compact to 19" rack
- From Intel ATOM to Core i CPU
- logico-hs consumes only 4 watt



▶ [www.ambiente.de/560](http://www.ambiente.de/560)



## Perfect in design and function

The new generation of our design legend – equipped with ATOM processor. Even more design options and low power consumption.

### The lightness of design

Whether you select a discrete glass look or a system unit in anodised aluminium – the ambiente offers unprecedented design variety due to its stylish colour and material combinations. It even integrates real wood so that you can combine it into your own interior decoration. The gallery mounting version for the ambiente gives it a particularly luxurious effect: flat with a floating effect.

Even the internal characteristics are impressive. The ideal basis for your applications is the power-saving high-performance Intel ATOM processor. Its connections are easily accessible due to the service-friendly system design.

- Elegant aluminium housing with 15" or 19" touch screen
- Various designs, design elements in real wood or glass
- Fully fledged PC
- As client, fully integratable in IP solutions of various manufacturers
- Integratable in door intercom systems
- Communication with tci contatto



[ ambiente19, real glass aluminium frame, silver anodised, system unit ]

## Design Multitouch – Perfect integration

In the wall – not on the wall:  
flush mounting for design aesthetes.

### Cuts a fine figure anywhere

Stylish and functional touch panel PCs offer timeless aesthetics with their continuous glass surfaces. It is operated intuitive per multitouch. Flush-fitting installation is possible with the optional plaster-in housing. Thanks to the device's shallow installation depth – suitable for either vertical or horizontal mounting – it can even be integrated in areas where there is little space.

- Ultra flat touch panel PC for
  - plastered-in mounting (EPG)
  - flush mounting (UPG)
- Multitouch with continuous glass surface
- 8" to 22" TFT
- Power-saving Intel ATOM processor up to Intel Core i3/i5/i7
- PoE
- Communication with tci contatto



[ mura16W, glass touch screen, black ]

## Freedom through flexibility

Operating panel or complete PC: Attractive touch panel mounted simply to the wall.

### Finds space anywhere

The compact touch panels can be quickly and simply fitted onto the wall. They have a closed, brushed aluminium case. Their internals can be modified flexibly to suit your requirements. XS-Technologie with integrated MicroBrowser, embedded system (CE) or power-saving PC technology. A wide range of possible uses in hotels, purpose-built buildings and OEM applications.

- 10" or 16" resistive touch screen display
- On-the-wall installation
- Optional
  - ➔ KNX
  - ➔ WLAN
  - ➔ ICOM (microphone, speaker, noise cancellation)
  - ➔ SSD
- PoE
- Communication with tci contatto



[ sospeso10, Housing with brushed aluminum surface ]

## The intelligent touch switch amena

amena makes a vision come true:  
A small intelligent touch panel replaces conventional switches.

### New convenience at a convincing prices

amena is a system solution with numerous fields of applications. The 3.5" and 7" touch panels can act as control centre in a small residential units or as clients in a large server-based villa or hotel. The functionality and appearance of every amena touch switch can be software-configured to meet customised requirements. If needs change over the course of time, simply modify the room control centre.

- New: Android
- 3.5" or 7" touch panel
- Multitouch with continuous glass surface
- Excellent price-performance ratio
- Single cable – easy power supply via Power over Ethernet (PoE)
- Cable-free baseboard technology
- Robust and long-life system design without fans or hard disc drives
- Communication with tci contatto



[ amena70-VI, continuous glass surface, black ]



## amena70-VI



### Android touch panel

This touch panel with a 7" multitouch display is designed for in-wall installation. It provides the same degree of operating ease as a smartphone, but has a far longer service life thanks to its industrial build quality.

- Multitouch panel with continuous glass surface
- Microphone and speaker with echo cancelling for hands-free intercom
- Sensors for temperature and brightness
- Android
- All apps available. Weather, mail, movies, radio,...
- Flush-fitting installation using a plaster-in housing or flush mounting using a flush-mounted box

## amena35 amena70



### Intelligent touch switch

The amena35 and amena70 3.5" and 7" touch panels are suitable for use as controllers in small residential units and as clients for server-based systems in large houses or hotels.

- amena70: Microphone and speaker for hands-free intercom use
- Resistive touch screen
- Communication with tci contatto
- The TVC (TciVisuClient) allows easy interfacing with a wide range of applications and systems. Elvis, Gira, NXA, Berker,...
- Mounting using a flush-mounted box

## amena70-XS



### Touch panels for web visualisation

With an especially to the hardware adapted Micro-Browser the 7" touch panels with XS-Technologie from tci offer an unbeatable price-performance ratio.

- PLC touch panel for the web visualisation of common controllers: CoDeSys, Siemens, Wago, Beck IPC, Beckhoff, and many more
- Resistive touch screen
- highest performance and stability
- Lightning fast start-up
- Interchangeable front designs of anodised aluminium or glass
- Mounting using a flush-mounted box

## amena70-XU



### Web visualisation in a standard flush box

Similar to the 7" touch panel with XS-Technologie, but of an extremely flat design. The rear connections allow to mount the touch panels easily with a standard flush box.

- PLC touch panel for the web visualisation of common controllers: CoDeSys, Siemens, Wago, Beck IPC, Beckhoff, and many more
- Resistive touch screen
- Very easy installation: on the wall in a standard flush-mounted box
- Device depth only 22 mm throughout
- Installation possible without opening the devices
- Various front designs
- High performance and stability, lightning fast start-up

## Clever all-in-one PC in exciting design

This is how good excellent performance at low power consumption can look like – nevertheless a fully fledged PC with user-friendly multitouch operation.

### Sophisticated design prepared for everything

It is difficult to believe that the functions of numerous appliances such as alarm clock, remote control, light switch, intercom system and weather station can be performed by only one compact touch panel. The iBiento shows how every possible convenient and security function can be integrated – from operating functions at home or audio and light function control in conference rooms to comprehensive convenience offers in hotel rooms.

- Desktop unit
- 16" multitouch screen
- Power-saving high-performance Intel ATOM processor
- Single cable – easy power supply via Power over Ethernet (PoE)
- Cable-free baseboard technology
- WebCam optionally
- Communication with tci contatto







[ iBiento16 with real glass multitouch ]

## 2 in 1 – Control and door communication via IP

In the middle of the action: Use your tci-touch panels for the (door) communication, audio and video. And simultaneously you control the entire house.

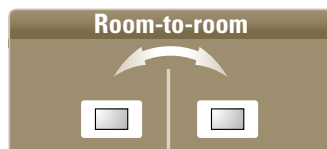
### contatto connects

contatto puts you are right where the action is. Use your tci ambiente touch panels now to integrate audio and video communication via VoIP/SIP and video streaming. This opens up totally new possibilities to make your home even more secure, more convenient and more efficient.

- Door communication    
- Security (alarm camera, video surveillance)
- Room-to-room communication
- Video conferences, Skype, VoIP
- Available for ambiente, mura, amena, sospeso and iBiento
- All at once concurrent with the building control Elvis, Gira, NXA, Berker,...



[www.ambiente.de/550](http://www.ambiente.de/550)



### contatto door communication

#### contatto connects

We integrate the systems of almost all manufacturers in your building system. The following manufacturers have been successfully certified: **Mobotix, Siedle, TCS, Baudisch, among others.**

## logico – the server solution

Full server performance at low consumption – the logico servers from tci. Fanless, maintenance-free and mountable in all positions. The logico-hs even fits in your fuse box.

### The appropriate server for every application

The fanless logico-hs has the cross section of an automatic circuit breaker and can be mounted on a DIN top-hat rail in the power distribution. USB and VGA interfaces are located behind the service cover when you need to perform service work. The logico-hs has a remote desktop function for installation in a network.

The compact logico-II also operates without any moving parts, it is durable, reliable and also noiseless. The scalable 19" rack servers are the ideal basis for high-performance systems and customised solutions.

[www.ambiente.de/560](http://www.ambiente.de/560)

Series	Description
<b>logico-hs</b>	Compact series housing with the cross section of an automatic circuit breaker, DIN top-hat rail, only 4 watt in operation <a href="http://www.ambiente.de/561">www.ambiente.de/561</a>
<b>logico II</b>	Aluminium housing, ultra compact and fanless, flexible mounting using the wall mounting plate <a href="http://www.ambiente.de/562">www.ambiente.de/562</a>
<b>Box-PC</b>	Rugged sheet steel housing, ultra compact and fanless, flexible mounting using the wall mounting plate <a href="http://www.ambiente.de/563">www.ambiente.de/563</a>
<b>Rack-PC</b>	Flat and compact housing for wall mounting, fanless or forced air ventilation, flexible mounting <a href="http://www.ambiente.de/564">www.ambiente.de/564</a>



### Solar house of the Technical University of Darmstadt



#### mura15 acting as control panel in an innovative solar house

The Plus Energy House designed by the TU Darmstadt is a solar house that generates more energy than it consumes. A touch panel PC mura15 from tci act as the control centre for the building services and as a presentation platform. The intelligent software of the KNX control panel monitors and controls all active systems, such as photovoltaic, solar thermal energy, domestic appliances, cooling, heating and ventilation.

▶ [www.ambiente.de/620](http://www.ambiente.de/620)

### Apartment complex in Abu Dhabi



#### Keeping an eye on consumption – smart metering using the amena70-XS

The amena touch panels are part of the green building concept. Each of the 221 apartments is fitted with one of the amena70-XS units that are directly connected to the building management system. Residents are able to view the current consumption figures for hot and cold water and for cooled water on a single display. In addition, the integrated intercom function allows communication from the apartments to the control centre.

▶ [www.ambiente.de/625](http://www.ambiente.de/625)

### Luxury villa in Emirates Hills



#### More than 400 data points comfortably linked with ambiente touch panels

Emirates Hills is one of the best residential areas in Dubai. On this very exclusive site is a luxury villa located that is equipped with ambiente touch panels from tci. The building that comprises six bedrooms is visualised on a total of 18 pages with more than 400 data points that can be easily operated using the ambientes. The elegant touch panels made in Germany also integrate all the surveillance cameras in the building automation system.

▶ [www.ambiente.de/630](http://www.ambiente.de/630)

### King Saud bin Abdulaziz University



#### Lighting control using ambiente touch panels at 15 colleges

ambiente touch panels from tci provide pleasant lighting at the King Saud bin Abdulaziz University for Health Sciences (KSAU-HS) in Saudi Arabia. Additionally are ambiente touch panels also installed at three sites of the KSAU-HS with 15 colleges and three office buildings in Riyadh, Jeddah and Ahasa. All the lighting systems in the buildings are also controlled and visualised.

▶ [www.ambiente.de/640](http://www.ambiente.de/640)





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