

merten

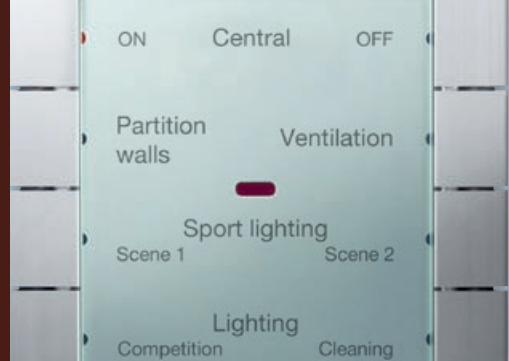
INTELLIGENT SOLUTIONS FOR SCHOOLS

MAKE SHARING KNOWLEDGE EASY



INTELLIGENT MERTEN SOLUTIONS
TOP MARKS FOR TECHNOLOGY AND DESIGN





Whether it be lighting, blinds, heating/ventilation or building management. Whether in a new construction or as part of renovation work – running a school building requires careful planning and investment, but that's not all – energy efficiency is enormously important as well. This is where Merten comes in: so that in future, you can regulate systems automatically, and cut long-term costs.

For many years, Merten has been internationally renowned as a manufacturer specialising in superior technology, award-winning design and consulting expertise. In addition to a wide variety of switch ranges and innovative products covering all aspects of KNX and security, Merten is also an outstanding provider of complete system solutions. Solutions tailored specifically to the needs and demands of schools.

Some examples:

- Energy-saving product solutions for the classroom
- Innovative, high-performance control technology for the school hall
- Merten KNX for the control of all building functions
- Complete, well-thought out electrical installation systems for corridors, classrooms and gyms

And if you have any special requests on the curriculum, we are always happy to adapt our products to your individual needs. After all, Merten's project managers feel right at home wherever their many years of international experience can be put to the most challenging use.



SOLUTIONS FOR CLASSROOMS AND CORRIDORS A SHINING EXAMPLE OF EFFICIENCY



The typical school day sees many requirements having to be met with regard to lighting, blinds, heating, air-conditioning and ventilation, particularly in corridors and classrooms.

Merten's intelligent technology not only allows you to flexibly adjust these building functions to your individual requirements – it can also have a positive influence on your energy bills.

Save up to 30% on heating and electricity costs with Merten presence detectors



Merten presence detector

With presence detectors, you can save up to 30% on your heating and electricity costs. The lighting only switches on when the presence detectors installed in the corridors, classrooms, gym and changing rooms sense that someone is there, and when they leave again the lighting will switch back off. If the lighting can be dimmed, it will automatically adjust itself to the external brightness. In this way, even long corridors can be monitored without interruption, and their lighting can be intelligently controlled. You can manually switch the lighting on and off at any time using a push-button.

Heating systems can also be integrated, e.g. with automatic night economy. With these simple tools you can put a stop to unnecessary energy consumption in corridors, stairways and classrooms.

These elegantly designed presence detectors can also increase safety and security first thing in the morning and last thing at night: If they detect movement, an alarm signal will be sent to a designated person, for example the caretaker.



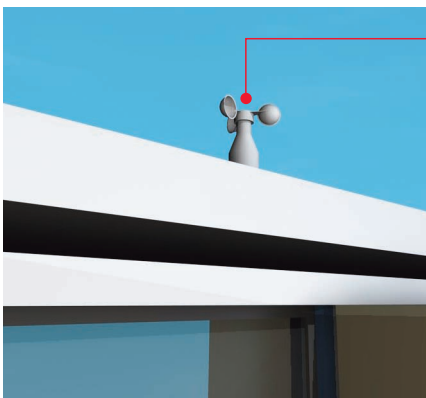
Ideal lighting conditions, all the time – with Merten blind control



Merten sun/twilight sensor



Key switch for roller shutters, M-SMART, polar white



Merten wind sensor

The convenience factor earns Merten yet more top marks: The sun/twilight sensor lowers the blinds and moves the slats into the right position before the rising sun can dazzle the teacher and students in the classroom. And the sun shade is raised

automatically if there happens to be a strong wind. The blinds can of course also be operated manually whenever preferred, with the Merten key switch.

SOLUTIONS FOR CORRIDORS AND GYMS PERFECT PROTECTION



Hard to beat – Impact-resistant ANTI-VANDALISM SCHUKO® socket-outlet, flush-mounted



ANTI-VANDALISM



Impact-resistant SCHUKO®
socket-outlet, flush-mounted

Some situations, especially in corridors or in the gym, are just too much for normal school electrical installations. This is where Merten's special solutions come to the rescue. If in the heat of competition the gym light switch gets hit more than the back of the net, or if herds of students sometimes treat corridors and outside areas to a stampede – ANTI-VANDALISM

switches, socket-outlets and impact-resistant flush-mounted socket-outlets are the right solution. This ANTI-VANDALISM range of switches specially designed for the rough and tumble of the school day can withstand blows, kicks, tools and even flames.

Water off a duck's back – AQUADESIGN



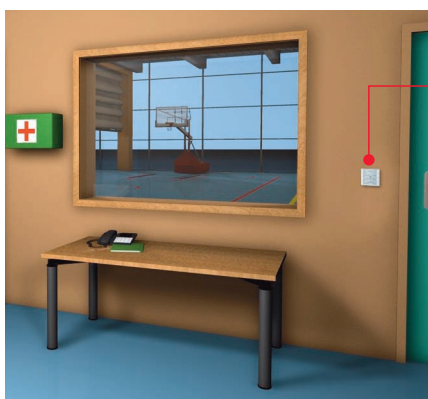
AQUADESIGN, polar white

AQUADESIGN is ideal wherever switches are exposed to damp, moisture, wind and rain, such as in changing rooms and

shower areas, basements, swimming pools or outdoor areas. The AQUADESIGN range has high-level splash protection to IP 44.



Fit for sport at the push of a button – with PLANTEC



PLANTEC control and display unit

From now on you can prepare for your sport lesson in total comfort: without leaving your changing room. While your students are getting ready, all you need to do is press a button to create perfect sporting conditions. If basketball is on the timetable, for example, the light switches to 200 lux, the ideal level for school sports, all partition walls are raised and the

ventilation system prepares a pleasant temperature. Whether you prefer to set up the gym to your requirements with a single button, or to activate each function individually – Merten's convenient control unit is as simple as: on your marks, get set, go!

Safe and tough – the ANTI-VANDALISM key switch



ANTI-VANDALISM key switch

Should you need to fine tune lux levels in the gym in the middle of a lesson, there's naturally no need to go back out to

the changing room. Just use the sturdy ANTI-VANDALISM key switch, that can be installed right there in the gym.

SOLUTIONS FOR THE SCHOOL HALL TOP-OF-THE-CLASS ORGANISATION



Reveal all with one click – the Merten IP Touch-Panel 10"



Merten IP Touch-Panel 10", Design M-PLAN real glass

Whether courses, visiting days for parents or festivals – there is always some kind of event on in the evening at schools. Intelligent technology from Merten lets you anticipate all these with tranquillity: Time-controlled heating creates a pleasant temperature in the required rooms in plenty of time.

The relevant corridors and classrooms can be switched conveniently to maintained light so that course participants, parents or guests can find their way to the classrooms safely: all controlled centrally and conveniently with the Merten IP Touch-Panel 10".

Showing the way – the Merten LED light signal



Merten LED light signal, M-SMART, polar white

Toilets, emergency exits and stairwells all have to be clearly indicated at all times. Orientation within school buildings is child's play with Merten's illuminated LED light signals.

They guarantee optimal illumination and ensure that the signs can be easily seen both day and night.



Ready for presentation at the touch of a button – with PLANTEC



PLANTEC control and display unit



PLANTEC multi-function push-button with room temperature control unit

Whenever there are speeches in the school hall, speakers should ideally be able to concentrate beforehand on what they are going to say, instead of on the equipment.

With PLANTEC, one touch is enough to lower the blinds, unroll the screen, switch on the projector, activate the air conditioning, and finally to dim the lights.

The Merten multi-function push-button with room temperature control unit – more than perfect event presentation



ARTEC KNX multi-function push-button, 4-gang with room temperature control unit, aluminium

With the Merten multi-function push-button with room temperature control unit, the school hall and any other room can be individually and conveniently heated or cooled as needed. And also with precision, thanks to a time control function. All display functions can be controlled simply and conveniently

using the flip-up display cover. The multi-function push-button with room temperature control unit comes with an integrated IR receiver for convenient control via remote control and piezoelectric buzzers to report faults and malfunctions.

SOLUTIONS FOR EFFICIENT FACILITY MANAGEMENT IN GOOD HANDS



Keep everything under control – with the Merten IP Touch-Panel 10"



Merten IP Touch-Panel 10", Design M-PLAN real glass

One person who always has everything under control: the caretaker. But at the intelligent school this needs no more tours of inspection. The caretaker can just look at the Merten IP Touch-Panel 10" to see where windows or doors are still open. And, at night, they will reveal if the school has any unwanted visitors. Or that lights and heaters are still switched on. If there is a heating malfunction, the caretaker can be notified immediately.

The technology that makes all this possible: the Merten KNX building management system. KNX connects up all your school's utilities using an intelligent bus line. In this way, information can be exchanged for all building functions. The advantage is that you can control a multitude of building functions conveniently, safely and efficiently.

MERTEN PRODUCT DIVERSITY A DAZZLING ARRAY OF FUNCTIONS

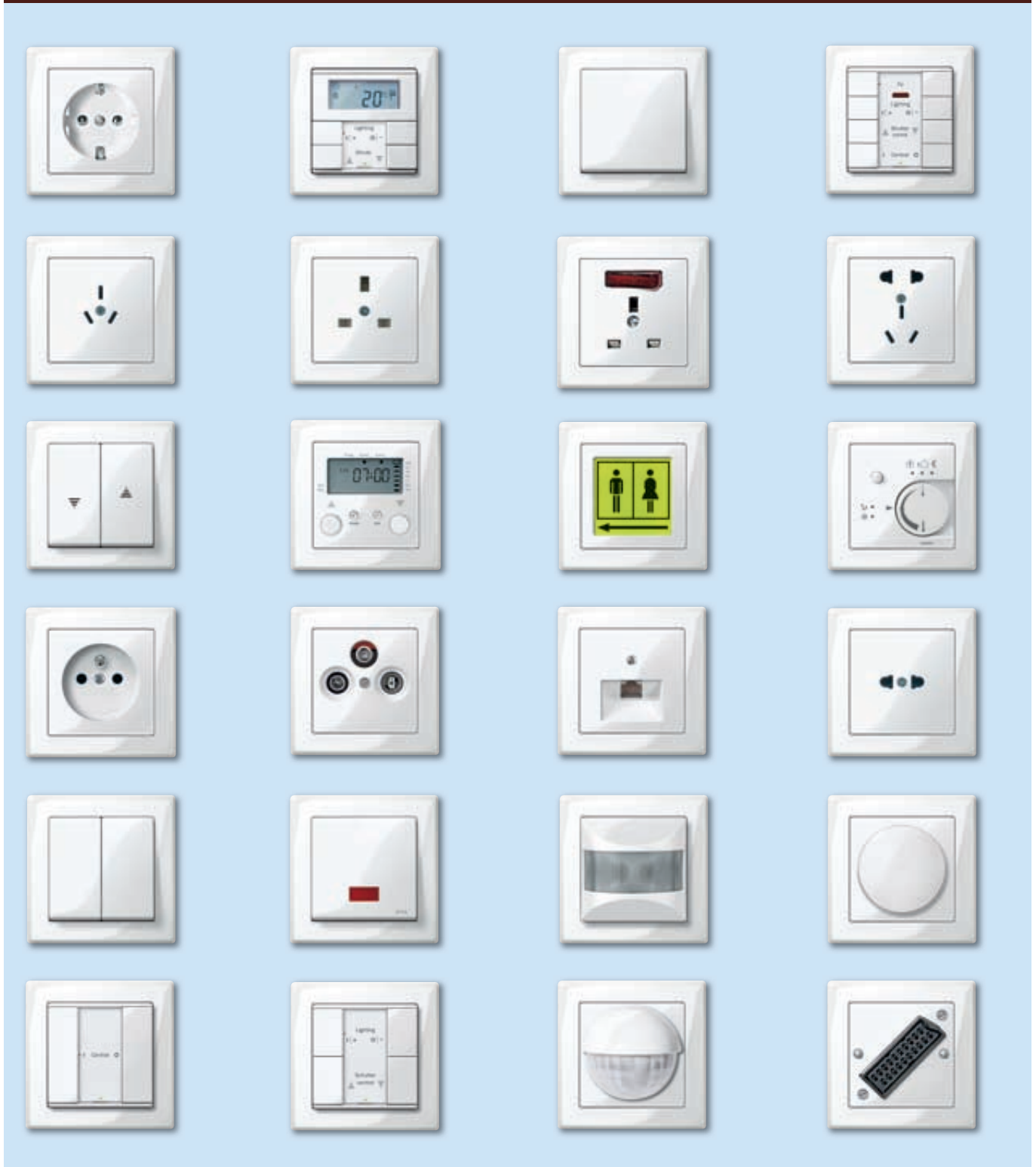


For corridors, classrooms, the gym, swimming pool or school hall. To control blinds, or to connect telephones and computers. Merten switch ranges have a lot to offer. M-SMART is presented here as just one example of the wide variety of

tasks and functions that our switch ranges can take on.

Special requests? We would be happy to customise our products to your individual needs.

A SELECTION FROM OUR VARIED RANGE OF SWITCH DESIGNS – THE M-SMART EXAMPLE (AROUND 210 FUNCTIONS AVAILABLE)



SWITCH RANGES AS INDIVIDUAL AS EACH STUDENT



Whatever architectural style characterises your school, Merten switch ranges have a variety of designs to suit. Classic or modern. For indoors, outdoors, or in rooms subject to moisture. To ensure your electrical installations have a uniform appearance, all our switch ranges cover a large spectrum of

individual appliances and functions. Best of all: if you want to change the design of your switches – because the building has been redecorated, for example – there's no problem matching the new frames and rockers with the existing flush-mounted inserts.

SYSTEM DESIGN

ARTEC



Polar white



Light grey



Aluminium



Stainless steel



Black grey

ANTIK



Polar white



White



Dark brazil



Antique brass



Polished brass/polar white

TRANCENT



Satinated



Transparent



TRANCENT aluminium frame/
ARTEC aluminium rocker

SPECIAL FLUSH-MOUNTED RANGE

AQUADESIGN



Polar white



White



Aluminium



Anthracite



Dark brazil



SYSTEM M

M-SMART



Active white



Polar white



White



Polar white/anthracite



Polar white/aluminium

M-ARC



Polar white



Aluminium



Anthracite



Sand/polar white



Midnight blue/aluminium

M-PLAN / M-PLAN II



Polar white



Aluminium



Anthracite



Aluminium/anthracite



Polar white/aluminium

M-PLAN real glass



Diamond/polar white



Diamond/aluminium



Mahogany/polar white



Sapphire/anthracite



Ruby/aluminium

M-STAR



Chrome/polar white



Chrome/anthracite



Satin silver/anthracite



Polished brass/polar white



Polished brass/white

Other attractive colour combinations are possible.

REFERENCES

MERTEN – THE TEACHER’S FAVOURITE



Templin Grammar School

From Germany to Belgium to China, Merten's intelligent building system technology has long passed the test of day-to-day operation in schools.

OUR REFERENCES:

- Academy of Music, Berlin, Germany
- University of Hamburg, Germany
- Ahlhorn Grammar School, Germany
- Buxtehude Vocational Training Centre, Germany
- Haus des Lehrers, Berlin, Germany
- Sebastopol School Centre, Osnabrück, Germany
- IUB Campus Centre, Bremen, Germany
- Unicom II, Bremen, Germany
- Media Docks, Lübeck, Germany
- Hohen Neuendorf Primary School, Germany
- Sixth Form Centre 2, Hennigsdorf, Germany
- Templin Grammar School, Germany
- Michendorf Grammar School, Germany
- Uli Schwarz Institute, Shanghai, China
- UFSIA University, Antwerp, Belgium
- Faculté Polytechnique, Mons, Belgium

MERTEN FREE CD

A DAY IN THE LIFE OF THE INTELLIGENT MERTEN SCHOOL

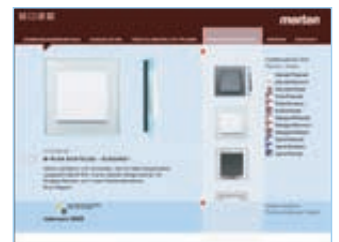
We are sure you have gained a first impression of the possibilities that Merten's innovative building system technology has to offer. You can get a second – multimedia – impression from the free Merten multimedia CD-ROM. With more examples of how the technology can be used in day-to-day school life, as well as detailed information on Merten's switch ranges and on KNX.

Visit the virtual Merten school and discover how your school too can become more efficient, more comfortable and more secure with Merten's intelligent building system technology.

Our internationally experienced project leaders are available to give you more information or to arrange a personal consultation.



Free: You can either order the Merten CD at www.mymerten.com or access it directly under the same link.



Clear, practical and informative - the Merten multimedia CD-ROM, with examples reflecting day-to-day school life,

shows you all you need to know about KNX, and features an interactive product guide and much more.

merten

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