

domat[®]
control system



NEWS LETTER

INTERACTIVE VERSION AT WWW.DOMAT.CZ

SUMMER 2014

Energy under control

Interesting activities

Energy management for Interspar

Thanks to energy management in the Interspar supermarkets in Liberec and Česká Lípa, savings of 10 000 € were achieved within 4 months on heating only. The service contains elaboration of energy audit reports with calculations of costs of saving measures, and following post-commissioning of the control system while keeping the comfort zone. The project started with the start of the heating season in 2013, when the management of the control system was taken over by a Domat engineer. The whole project was supervised by a certified energy auditor. The Domat technician then checked the operational parameters over Internet on a daily basis and set them according to the recommendations of the auditor.



The results were surprising: After four months, in January 2014, the project was analysed. Total savings achieved in the time span of September to December 2013 were excellent 32.5 % of the reference costs, which corresponds to the amount of CZK 281,500 (or more than € 10,000). The investment recovery time was incredible 52 days. Estimation of average saving for application at other objects only for heating is 17 to 25 %. The investor decided to use the tested method at other markets immediately, including cooling season, where the savings should be even higher.

See details on web:

<http://domat-int.com/en/references/case-studies/energy-management-provable-results>

ISO 14001:2004 certification

In late April, the regular ISO audit took place in Domat. Conformance with ISO 9001:2009 was confirmed, and Domat acquired a new certification according to ISO 14001:2005, relating to environmental management. This certification proves that the company controls the environmental impacts of its activities, which is important especially at construction activities, or at our turn-key projects. The ISO 14001:2005 certificate is more and more often required by construction companies as a proof that the supplier is aware of the environmental impacts of his activities and is able to control them.



Domat becomes exclusive distributor of S+S Regeltechnik in the Czech Republic

Domat became the exclusive distributor of S+S Regeltechnik Nürnberg, a renowned German sensor manufacturer, for the Czech Republic as of January 1, 2014. Both companies have long-term experience with OEM cooperation. Now, the product range offered at the Czech market has been enlarged to the complete portfolio of the S+S Regeltechnik products. Apart from the common temperature, humidity, pressure, air quality etc. sensors, which our customers already know from the Domat product overview catalogue, the S+S product range comprises also various accessories as well as less common and special sensors (such as showcase temperature sensor or differential pressure sensor with air flow calculation and output). S+S Regeltechnik owns a 4000 m² production plant and 500 m² offices in Nürnberg, which host 50 employees. The complete production range can be found in the online catalogue at www.spluss.eu.



S+S REGELTECHNIK

Dear business friends,

again, the time of holidays and vacations is near. The following months will be full of business for many of us, as the slight economic rise can be also seen in some recovery of construction business. Domat Control System had a quite successful year with some nice reference projects which are described in detail in this issue. We would like to thank you, our customers and distributors, for them, and we believe that the last season was good for you, too.

In one of the last newsletters we complained of late payments by some construction companies which „prevent the wheels of industry from turning“. We are happy to claim today that the invoices overdue are at all-time lows. Maybe it is a sign of deeper changes on the markets, or even in the society?

We wish you a nice holiday and great summer.

Team Domat Control System s.r.o.

NEW products

MLIO – module for distributed systems



A control system often acquires data from technologies which are installed not only in the machinery rooms, but across the building as a whole. When designing and installing the system, the aim is to save cabling and installation costs which represent about 30 to 40 % of the complete system costs. At some sites, it may be useful to use distributed inputs and outputs, for example as in the MLIO I/O module. This module is ready for installation directly at the body of an air handling unit, cable tray or room wall. The I/O configuration was designed as optimized against the usual HVAC sites I/O mix so as to minimize total hardware and installation costs.

MLIO contains

- 4 universal inputs (passive temperature, resistance, voltage 0..10 V, dry contact)
- 2 relays 230 V AC / 5 A
- 1 analogue output 0...10 V.

The first deployment of the module was at the reconstruction of the Krakov shopping center in Prague. MLIO is part of new projects both in the Czech Republic and abroad since January 2014. It also saves effort at the installation and commissioning phase thanks to hardware addressing and setting of the input ranges using switches rather than software configuration.

MW100 – interface for RFID card readers

Although this device may seem not to fit completely into the HVAC control system product range, it may be useful for specific functionality requirements. MW100 is an interface between Wiegand 26 RFID card readers and Ethernet, supporting HTTP and Modbus TCP protocols. MW100 contains both internal functionality for offline electric lock control, and communication functions to a server to verify card access rights over a network. The offline list of allowed cards may be managed over the web interface of MW100.



Possible applications are:

- Electric lock control – access control
- Acquiring of information about movement of persons using RFID cards (sentry points)
- Remote electric lock control over Ethernet.

The XML request and answer description is available, which makes integration into 3rd party systems easy.

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NEW products

UT090 room temperature and CO₂ sensor

Analogue room sensor of temperature and CO₂ concentration. The sensor is powered by voltage of 24 V AC +/- 10% or 16...35 V DC, offering two 0...10 V output signals: temperature 0...50 °C and CO₂ concentration in ranges 0 ... 2000 or 0 ... 5000 ppm. The ranges are selectable by a DIP switch inside of the housing. The CO₂ sensor uses a proven NDIR (non-dispersive infrared) principle. As the temperature and CO₂ signals are digitally processed, the autocalibration and correction functions were easy to implement, which contributes to increased accuracy and stability of the sensor. The UT090 sensors can be integrated into any building control system.



ContPort[®]

ContPort – reference values module

With implementation of the energy management pilot project, the ContPort energy management portal has been enhanced with a reference values module. This software module compares building energy consumption with weather data. It takes the outside temperatures and energy consumption data from the period before introduction of energy saving measures as a base, and estimates energy consumption for current weather data without energy saving measures. (The energy consumption with energy saving measures is the real energy consumption of the building.) Comparing this reference consumption with real consumption, we learn the real efficiency of the energy saving measures while edging out the influence of different outside temperatures in different years.

PV Performance Guard – service for audit of PV plants



Domat Control System together with TÜV SÜD is introducing a new service, PV Performance Guard: an independent monitoring system with regular reports audited by TÜV SÜD. This system may be deployed at existing as well as at new PV power plants which are using either Domat or another monitoring system. It is an independent measure for regular checking of production efficiency, based on really installed technologies (i.e. not according to the plant design, but to the real conditions of the production plant). The output is an initial audit of installed technologies and regular monthly reports authorised by TÜV SÜD. The reports not only assess the PV plant performance regarding its real technical condition, irradiation conditions, and satellite meteo data, but they also discover possible technical problems within the plant.

Read more details at <http://domat-int.com/en/system-solutions/energy/pv-performance-guard>

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Czech republic

Domat Control System s.r.o.
U Panasonicu 376
CZ – 530 06 Pardubice – Staré Ččivice
Tel.: +420 461 100 823
Fax: +420 226 013 092
Service hotline: +420 733 421 878
info@domat.cz
www.domat.cz

Training center Praha
Třebízského nám. 424
CZ – 250 67 Klecany
Tel.: +420 222 365 395
Fax: +420 226 013 092
support@domat.cz

Slovakia

Domat Control System s.r.o.
Udernická 11
SK – 851 01 Bratislava
Tel.: + 421 2 206 48 965
Fax: + 421 2 332 04 558
e-mail: info@domat.sk
www.domat.sk

Austria

Simic Mess- Steuer- u. Regeltechnik
Neubaugasse 13
A-3435 Neusiedl
Tel.: +43 (664) 975 60 85
e-mail: simic.msr@gmx.at

Benelux

VEDOTEC BV
De Vijf Boeken 1K
2911 BL Nieuwerkerk aan den IJssel,
Tel.: (+31) 088-833 68 00 of
088-VEDOTEC,
Fax: (+31) 088-833 68 68,
Mobile: (+31) (0)6-41458511
e-mail: info@vedotec.nl
www.vedotec.nl

Croatia

Aeroteh d.o.o.
Andrije Źaje 10
HR – 10000 Zagreb
Tel.: + 385 1 301 53 12
Fax: + 385 1 301 53 13
e-mail: eduard.nothing@aeroteh.hr
www.aeroteh.hr

Germany

S+S Regeltechnik GmbH
Pirnaer StraÙe 20
D-90411 Nürnberg
Tel.: +49 (0) 911-519 47-0
Fax: + 49 (0) 911-519 47-70
e-mail: mail@spluss.de
www.spluss.eu

Hungary

LS épületAutomatika Kft
Mészáros Lőrinc utca 130/B.
H-1194 Budapest
Tel.: +36 1 288 0500
Fax: +36 1 288 0501
e-mail: aracs.peter@lsa.hu
www.lsa.hu

Italy

Automat
Stefano Perfetti
Via Vincenzo Monti, 26
IT – 20123 Milano
Tel.: +39 335 406 463
e-mail: s.perfetti@dintorni.net

Lithuania and Latvia

UAB BALTESA
Źalgirio g. 108
LT-09300, Vilnius
Tel.: +370 (5) 2727902
Fax: +370 (5) 2727902
e-mail: info@baltesa.lt
www.baltesa.lt

Malaysia

TECH-STORE MALAYSIA Sdn. Bhd.
No.20-2, Jalan Suria Puchong 6,
Pusat Perniagaan Suria Puchong,
47110 Puchong, Selangor Darul Ehsan
Tel: +603 8940 6688
e-mail: info@tech-store.com.my
www.tech-store.com

The Netherlands

Building technology bv
Postbus 189
NL – 7390 AD, Twello
Tel.: +31 571 262 728
Fax: +31 571 262 628
e-mail: info@buildingtechnology.nl
www.buildingtechnology.nl

Poland

P&B Sp. z o. o.
Szosa Chełmińska 26/610
87-100 Toruń
Tel.: +48 56 660 84 18
e-mail: info@domat-cs.pl
www.domat-cs.pl

Portugal

WSBP – We Solve Building Problems
Rua Pedro Nunes – Quinta da Nora
3030-199 Coimbra
Tel.: +351 239700317
Fax: +351 239 700 318
e-mail: info@wsbp.eu
www.wsbp.eu

Romania

SC LSA Romania Building Automation SRL
L.N.Tolstoi Nr. 13, Tg. Mures
Tel.: +36 1 288 0500
Fax: +36 1 288 0501
e-mail: aracs.peter@lsa.hu
www.lsa.hu

Slovenia

KOVINTRADE CELJE
Mednarodna trgovina d.d. Celje
POSLOVNA ENOTA LJUBLJANA
Brnčičeva ulica 45
SLO – 1000 Ljubljana
Tel.: + 386 1 560 76 78
Fax: + 386 1 530 24 41
e-mail: regulacije@kovintrade.si
www.kovintrade.com

Switzerland

GLT Engineering AG
Schützenstrasse 30
CH-8245 Feuerthalen
Tel.: +41 52 647 41 00
Fax: +41 52 647 41 09
e-mail: info@glt.ch
www.glt.ch