Success guaranteed
The new CMS-700 Control Unit and open-core sensors

Power and productivity
for a better world™

Control Unit CMS-700 and open-core sensors
Efficient energy monitoring has never been so easy

Making good and well-proven products a little bit better: in line with this principle we have expanded our successful CMS (Circuit Monitoring Systems) to include a new open-core sensor generation that can simply be pushed onto existing installations without power interruption.The new Control Unit CMS-700 additionally expands the product range with the option of analyzing the measurement data for up to 96 sensors and displaying or further processing it with an integrated web server or via the interfaces LAN TCP/IP or Modbus RTU. This results in a unique overall system that leaves nothing to be desired in terms of assembly, handling and measurement precision.

NEW

The new Control Unit CMS-700 analyzes up to 3 x 32 current sensors in order to collect the energy and power data of the outputs

NEW

The new open-core sensors now offer even greater flexibility

Minimum space requirement
Small, smaller, CMS – everything needed for effective measuring has been accommodated in the width of a sugar cube.

Very simple installation
The sensors are mounted in next to no time. No special tools are needed for the entire connection process – there is no need for the usual complicated wiring.

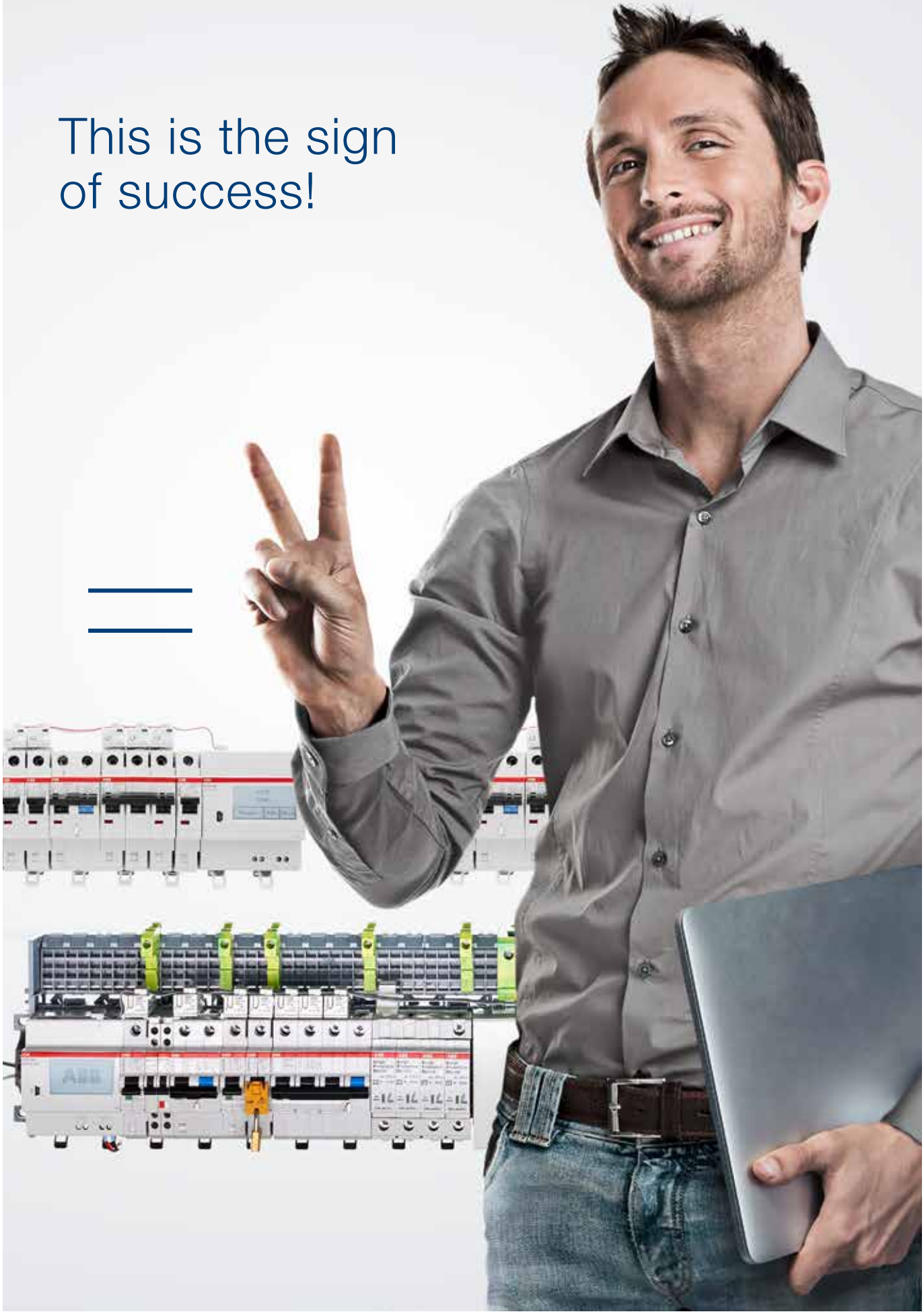
User-friendly commissioning
Configuring can be this smart: thanks to the intuitive operating concept the system can be set up and made ready for measuring in a matter of minutes.

One sensor for all types of current
Direct current, alternating current or mixed current – the CMS sensors measure everything. And in a huge measuring range of up to 160 A.

Always retrofittable and upgradeable
The system can be supplemented or modified at any time as it is extremely flexible and modular. Retrofitting is also possible sensor by sensor.

Maximum reliability
The contactless measuring process rules out potential sources of error right from the start. The negligible amount of wiring required ensures maximum system stability.

This is the sign of success!



CMS Circuit Monitoring System
A whole system full of advantages

The CMS is a multi-channel measuring system for monitoring direct current and alternating current in the branches. Thanks to various mounting options, the sensors can be installed very flexibly within the control and distribution cabinets. The control units available are very simple to mount on the DIN rail. The compact design means that the systems are also ideal as a retrofit solution for existing installations.

Early warning system (predictive maintenance) for increasing the availability of critical consumers

The continuous monitoring of the current flow on the circuit breaker enables overloaded lines to be identified before interruptions occur. Monitoring individual circuits also supplies information on whether the consumers are in the desired operating mode. CMS can also detect unbalanced loads in the system in good time.

Cost analysis to reduce and assign energy costs

“You can’t improve what you can’t measure!” To make efficient use of the available energy it must first be clear where and how the electricity is used. The CMS offers maximum transparency here. In addition, recording the current flow on the individual outputs can also be used to perform a rough cost allocation.

CMS system components
An overview

Control units

Control Unit CMS-700

TCP/IP+Modbus RTU

Measuring instrument for recording the performance and energy of up to 96 sensors

Control Unit CMS-600

Modbus RTU

Measuring instrument for measuring and monitoring the current of up to 64 sensors

Control Unit CMS-770

LAN+WLAN

Measuring instrument for recording the performance and energy of up to eight sensors

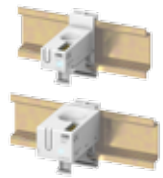
Sensor installation methods

System pro *M* and SMISSLINE

for all LS, FI & FI-LS with two-tier terminal

S800

for all S800 devices with cage terminal



DIN-rail

universal application

Cable ties

universal application

Open-core sensors

AC accuracy* ≤±1.0%

The position of the cable influences the precision.

18 mm width			
CMS-120xx (80 A)	CMS-120PS	CMS-120DR	CMS-120CA
CMS-121xx (40 A)	CMS-121PS	CMS-121DR	CMS-121CA
CMS-122xx (20 A)	CMS-122PS	CMS-122DR	CMS-122CA

Solid-core sensors

AC accuracy* ≤± 0.5%

18 mm width				
CMS-100xx (80 A)	CMS-100PS	CMS-100S8	CMS-100DR	CMS-100CA
CMS-101xx (40 A)	CMS-101PS	CMS-101S8	CMS-101DR	CMS-101CA
CMS-102xx (20 A)	CMS-102PS	CMS-102S8	CMS-102DR	CMS-102CA

25 mm width				
CMS-200xx (160 A)		CMS-200S8	CMS-200DR	CMS-200CA
CMS-201xx (80 A)		CMS-201S8	CMS-201DR	CMS-201CA
CMS-202xx (40 A)		CMS-202S8	CMS-202DR	CMS-202CA

*All accuracy specifications refer to the relevant full scale value and apply to 25 °C.

Contact us

ABB Schweiz AG
Low Voltage Products
Brown Boveri Platz 3
CH-5400 Baden
Phone: +41 58 586 00 00
Fax: +41 58 586 06 01

ABB Suisse SA
Produits basse tension
Avenue de Cour 32
CH-1007 Lausanne
Phone: +41 58 588 40 50
Fax: +41 58 588 40 95

www.abb.ch/gebaeudeautomation

ABB Stotz-Kontakt/Striebel & John
Vertriebsgesellschaft mbH
Eppelheimer Straße 82
D-69123 Heidelberg
Phone: +49 180 5692002*
Fax: +49 180 5693003*
E-Mail: asj.vertriebsservice@de.abb.com

www.abb.de/asj

* €0.14 per min. from a German landline,
max. €0.42 per min. from a mobile phone

ABB STOTZ-KONTAKT GmbH
Eppelheimer Straße 82
D-69123 Heidelberg
Phone: +49 6221 701-0
Fax: +49 6221 701-1325
E-Mail: desto.info@de.abb.com

www.abb.de/stotz-kontakt

ABB AG
Low Voltage Products
Clemens-Holzmeister-Straße 4
A-1109 Vienna
Phone: +43 1 601 09-0
Fax: +43 1 601 09-8600
E-Mail: abb.lpvs@at.abb.com

www.abb.at
www.abb.com/lowvoltage

2CCC481010L0201

Power and productivity
for a better world™