



# Data integrity in building automation

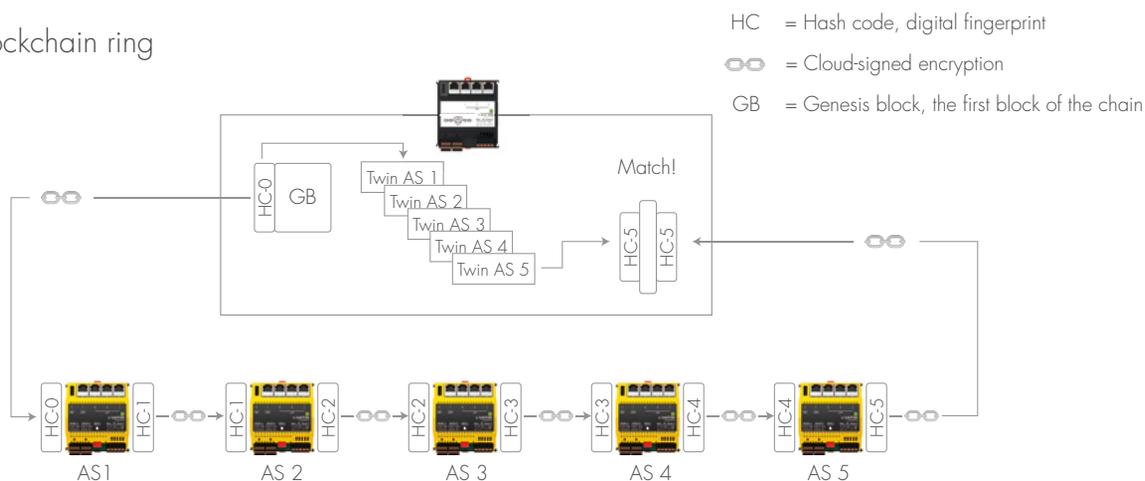
## Building Data Integrity Manager

The Internet of Things (IoT) is unthinkable without cyber security. modulo 6 is the latest generation of building automation systems, and with this SAUTER offers a security-oriented solution.

### Blockchain technology\* for data integrity

SAUTER makes use of blockchain technology and links the data from the automation stations in the building network to form a blockchain ring. Each automation station uses its own data to form a block in the chain. For this, the automation station generates its own digital fingerprint which is based on its own data and on a fingerprint of the previous station in the block-chain ring. The block data consists of programs, firmware and process and network parameters.

### SAUTER Blockchain ring



Secured building automation network with SAUTER modulo 6 stations

If the data integrity is violated, the blockchain immediately breaks. The affected automation station is firstly isolated so that a propagation of the fault to the network is prevented early and in an effective manner. The automation station is then automatically restored and reintegrated into the building automation network.

\*patented

### Product specifications

The modu615-BM provides a local solution for data integrity in the plant. It has an integrated web server for local commissioning, visualisation, operation and notification. A guided configuration process (wizard) creates the blockchain and starts the integrity check. The current process and the state of the blockchain can be accessed at any time in the dashboard. An e-mail notification is sent in case of integrity violation. Proven security technologies provide encryption, authentication and access protection. This means that the system is already well protected against cyber attacks at the automation level.

	modu615-BM	EY-6BM15F011
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### Compatibility

The following devices from SAUTER are compatible with modu615-BM

	modu680-AS	EY-6AS80F021
	modu660-AS	EY-6AS60F011
	modu612-LC	EY6LC12F011
	ecos504/505	EY-RC 504/505



- Checking the data integrity
- Notification in case of violation
- Restoration during operation of the plants

**Cyber security by design**



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