

SYNCHROTECT® upgrade

Keep your assets synchronized, safe and productive



For more than 50 years, SYNCHROTECT® has protected power plant generators and substations from the potentially destructive effects of current surges caused by paralleling in non-synchronized conditions. Upgrade to the latest device in the SYNCHROTECT family to keep the energy flowing, your equipment productive and people safe.

SYNCHROTECT 6

ABB's SYNCHROTECT 4 device exited production in 2010 and is in the limited phase of its life cycle. Inventory of spares and device availability cannot be guaranteed at this stage. Securing the plant life cycle by retrofitting to the SYNCHROTECT 6 will keep assets productive, safe and reliable.

Upgrade benefits

- Long-term availability of parts
- Minimum shutdown and commissioning time: the SYNCHROTECT 6 has similar mechanical installation dimensions and the same electric control concept as its predecessor
- Long-term availability of engineering and support competences, including 24/7 telephone support

Launched at the beginning of 2018, SYNCHROTECT 6 is the sixth generation of ABB's proven and popular synchronizing technology. Over 22,000 SYNCHROTECT units have been sold since its introduction, more than any other synchronizer on the market.

The SYNCHROTECT portfolio is the most comprehensive on the market, extending from the smallest to the largest power requirements and covering all power generation applications.

Typical applications

- Power plants with machines of any type up to 2000 MW
- Thermal power plants (diesel, gas, steam), including combined cycle and nuclear power
- Hydropower plants, including pumped storage
- Industrial plants with own power generation
- Grid paralleling in substations and islanded power networks
- Large AC motors, soft-started and running above nominal speed by means of a drive and then synchronized during coast down

SYNCHROTECT 6 features

- The latest generation has two diversely constructed channels in the same device. The channels operate with different hardware and software, to minimize the danger of a systematic error. They also monitor each other
- State-of-the-art communication protocols, including IEC 61850 Ed. 2, offers a choice between an electrical or optical interface
- IEC 60255-26, IEC 60255-27 and ANSI/IEEE C37.90 product standards for protection and measuring relays
- The unit's robust design is in accordance with the IEC 61508 SIL2 safety integrity level






Upgrade today

Electronic devices have a shorter life expectancy than plant electrical and mechanical equipment, upgrading your SYNCHROTECT 4 to SYNCHROTECT 6 will keep your valuable production assets safe and at the highest levels of availability.

In order to know which model of the SYNCHROTECT 6 device is best suited for your application, simply provide your sales representative with pictures of

the front and back of the SYNCHROTECT 4 and your plant drawings of the synchronizing system (if available). We'll be happy to discuss the upgrade opportunity and quotation with you.

Contact us for more information!

SYNCHROTECT 4	SYNCHROTECT 6
<div>Single channel</div> <div></div> <div>1x UNS 2980</div>	<div></div> <div>1x SYN6201 or 1x SYN6202</div>
<div>Redundant Dual channel</div> <div></div> <div>2x UNS 2980</div>	<div></div> <div>1x SYN 6302</div>