LEAFLET

UNITROL® 1000 Upgrade

Compact and powerful automatic voltage regulators



For more than 20 years, UNITROL® 1000 family has covered a wide range of applications for voltage regulation tasks of a synchronous generator or motor up to 80MVA. It sets a new benchmark for the global industry with respect to functionality, reliability, and connectivity. Upgrade to the latest device in the UNITROL® 1000 family to keep the energy flowing, your equipment productive and people safe.

The UNITROL® 1000-7 and UNITROL® 1000-15 entered the limited phase of its life cycle in 2019. In this phase, ABB's services and support are limited to the availability of key components and migration planning to the latest technology is recommended.

Upgrade benefits

- Long-term availability of parts, by considering a replacement, users can capitalize on the features of a product still in its active phase, thereby eliminating any risks associated with equipment entering the obsolete stage.
- Minimum shutdown and commissioning time: the extremely flexible and powerful UNITROL 1010 and UNITROL 1020 are the optimal products for replacement, where electrical interface and SW is fully backwards compatible.
- Long-term availability of engineering and support competences, including 24/7 telephone support.

Wide range of applications

- Land-based power plants based on diesel or gas engines, gas or steam turbines and hydro turbines.
- Marine: electrical propulsion and auxiliary supply.
- Traction: diesel electric locomotives.
- Wind: based on direct connected
- Synchronous machines.
- Synchronous motors.
- Variable speed application.

UNITROL® 1020/ UNITROL® 1010 features

- Compact and robust AVR for excitation current up to 20 A
- Plug-in type terminal blocks for digital and analog I/O's
- Equipped with industrial USB
- Ethernet, CAN and RS485 ports
- Human Machine Interface, HMI (model UNITROL 1020)
- Certified AVR according to German grid code including verified simulation models

Upgrade today

Electronic devices have a shorter life expectancy than plant electrical and mechanical equipment, upgrading you UNITROL® 1000-7/UNITROL 1000-15 to UNITROL® 1020/ UNITROL® 1010 will keep your valuable production assets safe and at the highest levels of availability.

In order to know which model of the UNITROL® 1000 family is best suited for your application, simply check the table below.

Legacy Products	Replacements
	
UNITROL® 1000-7	UNITROL® 1010
	
UNITROL® 1000-15	UNITROL® 1020

It is available to all our customers at ABB library an Application Note with instructions to support the upgrade, on the follow **link**.

If you are not register in myExitation Widget follow the instructions on the **link**.

ABB Service department can also provide the full upgrade Service.

Contact us for more information!

UNITROL® 1000 Supportline **unitrol.supportline@ch.abb.com**
24h Hotline: +41 844 845 845

Legacy Products		Replacements		Remarks
Type	**Order code**	**Type**	**Order code**	
UNITROL 1000-7 LIGHT	3BHE016011Rxxx2	UNITROL 1010 LIGHT	3BHE035301R0002	
UNITROL 1000-7 BASIC	3BHE016011Rxxx3	UNITROL 1010 LIGHT	3BHE035301R0002	UNITROL 1010 BASIC will replace every version of UNITROL 1000-7
UNITROL 1000-7 FULL	3BHE016011Rxxx6	UNITROL 1010 BASIC	3BHE035301R0003	
UNITROL 1000-7 FULL+PSS	3BHE016011Rxxx7	UNITROL 1020 FULL+PSS	3BHE030579R0007	Optional UNITROL 1010 BASIC plus PSS as SW option can be used
UNITROL 1000-15	3BHE005774Rxxxx	UNITROL 1020 BASIC	3BHE030579R0003	
UNITROL 1000-15 BASIC	3BHE014557Rxxx3	UNITROL 1020 BASIC	3BHE030579R0003	UNITROL 1020 BASIC will replace all types of UNITROL 1000-15, except units with PSS
UNITROL 1000-15 FULL	3BHE014557Rxxx6	UNITROL 1020 BASIC	3BHE030579R0003	
UNITROL 1000-15	3BHE014557Rxxxx	UNITROL 1020 FULL	3BHE030579R0006	UNITROL 1020 FULL will replace any UNITROL 1000-7 and UNITROL 1000-15, expect units with PSS. Main benefits are additional functions of event and data log
UNITROL 1000-15 FULL+PSS	3BHE014557Rxxx7	UNITROL 1020 FULL+PSS	3BHE030579R0007	

Remark:
"x" is a placeholder for any numbers, typically different order codes are given to brand labeled device

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