OMD200, OMD300 and OMD800 automatic control units update

Automatic control units OMD200, OMD300 and OMD800 are now released for sales as separate components. From now on, our customers can buy the OTM motorized change-over switch and OMD control unit separately, in order to build an automatic transfer switch by themselves.

In addition, the software of ABB’s automatic control units OMD200, OMD300 and OMD800 has been updated. As a result, OMD control units have:

- Improved switching logic
- Wide application coverage
- Improved controller I/O:s
- Improved communication
- Improved status indication
- Improved system control

These software updates are also valid for OTM_C_D automatic transfer switches.

OMD200 and OMD300 updates

New features
- TBS back-switching can be either the same as TS switching delay or fixed 300 seconds. In the previous version, TBS back-switching delay was always the same as TS switching delay.
  ▶ Unnecessary transfers prevented

New operation modes
- Manual back-switching mode to prevent automatic back switching.
  ▶ Unwanted transfers and double blackouts prevented
- Line I can be the priority line or no priority line at all. Previously, Line I was always the priority line.
  ▶ More flexibility in special applications

OMD800 updates

New operation modes
- Manual back-switching mode to prevent automatic back-switching.
  ▶ Unwanted transfers and double black-outs prevented
- Line I or Line II can be the priority line. Previously, Line I could be the priority line or no priority line at all.
  ▶ More flexibility in special applications
- Automatic operation to O. In case of source failure, the ATS will move to position O, if both the motor and control unit are energized.
  ▶ Loads are not fed with low quality voltage

New parameters
- Individual voltage and frequency threshold (drop-out voltage and drop-out frequency) settings for Line I and Line II. In the previous version, Line I and Line II had common voltage and frequency threshold settings.
  ▶ Correct parameters for an application can be selected. For example, lower voltage threshold for genset
- Individual voltage and frequency hysteresis (pick-up voltage and pick-up frequency) settings for Line I and Line II.
  ▶ Quality voltage guaranteed
- Individual phase system settings for Line I and Line II. Previously, Line I and Line II had common phase system settings.
  ▶ More flexibility in special applications
- New time delay – Delay on transfer. Generator voltage stabilized before transfer. The transfer is delayed until the generator is ready to take load. Generators can run without load up to 10 minutes.
  ▶ Generators in cold locations protected
- Reduced back-switching delay.
  - In case of Line II failure, loads will be transferred to Line I according to TS switching delay
- Status of time delays shown on the LCD. The LCD shows how much time is left before transferring.
- Status of secondary loads on the LCD. The LCD shows if secondary loads are connected or disconnected. In the previous version, this status indication was not available.
  - Easy to identify status
- Alarm/Event log records all events: undervoltage, whether ATS was operated manually, device alarm, etc. The previous versions recorded only alarms.
  - Full understanding of ATS history
- External transformer ratio setting. If the control unit is used above 480 VAC, voltage transformers must be used. Ratio setting allows the correct measurements to be shown on the LCD.
  - ATS can be used in 690 V systems
- Secondary loads can be connected and disconnected manually and automatically. Previously, only automatic control was possible.
  - Improved load shedding control
- Timer for LCD backlight: the LCD can be always on, or it can be turned off after set delay. In the previous version, the LCD was always on.

In addition to English, French, German, Spanish, Italian and Finnish, Russian and Chinese are now available in the LCD’s menus.

New digital inputs
- Programmable digital inputs. The user can choose what features he wants to use.
  - Process integration made possible through custom parameterization
- New digital input that allows switching from I to II.
  - Suitable for genset applications
- Possibility to control non-critical loads.
  - Remote controlled load shedding
- Remote controlling to positions I, O and II. Previously, only remote control to position II was possible.
  - Remote control with external control commands possible
- Generator alarm. OMD signals alarm on LCD. Switching to position O is also possible in case of alarm.
  - The safety of the system is increased
- Activate manual back-switching mode, to prevent automatic back-switching.
  - Unwanted transfers prevented

New digital outputs
- Programmable digital outputs. The user can choose what features he wants to use.
  - Process integration made possible through custom parameterization
- Digital output for Line I and Line II status.
  - Easy to identify line status
- New digital output - secondary loads. Secondary loads can be controlled via Fieldbus. It is possible to control many different secondary loads.
  - Remote controlled load shedding

Communication
- Two-way communication (Information monitoring, parameter setting and switch control). Previously, there was one-way communication.
  - Full control via communication

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