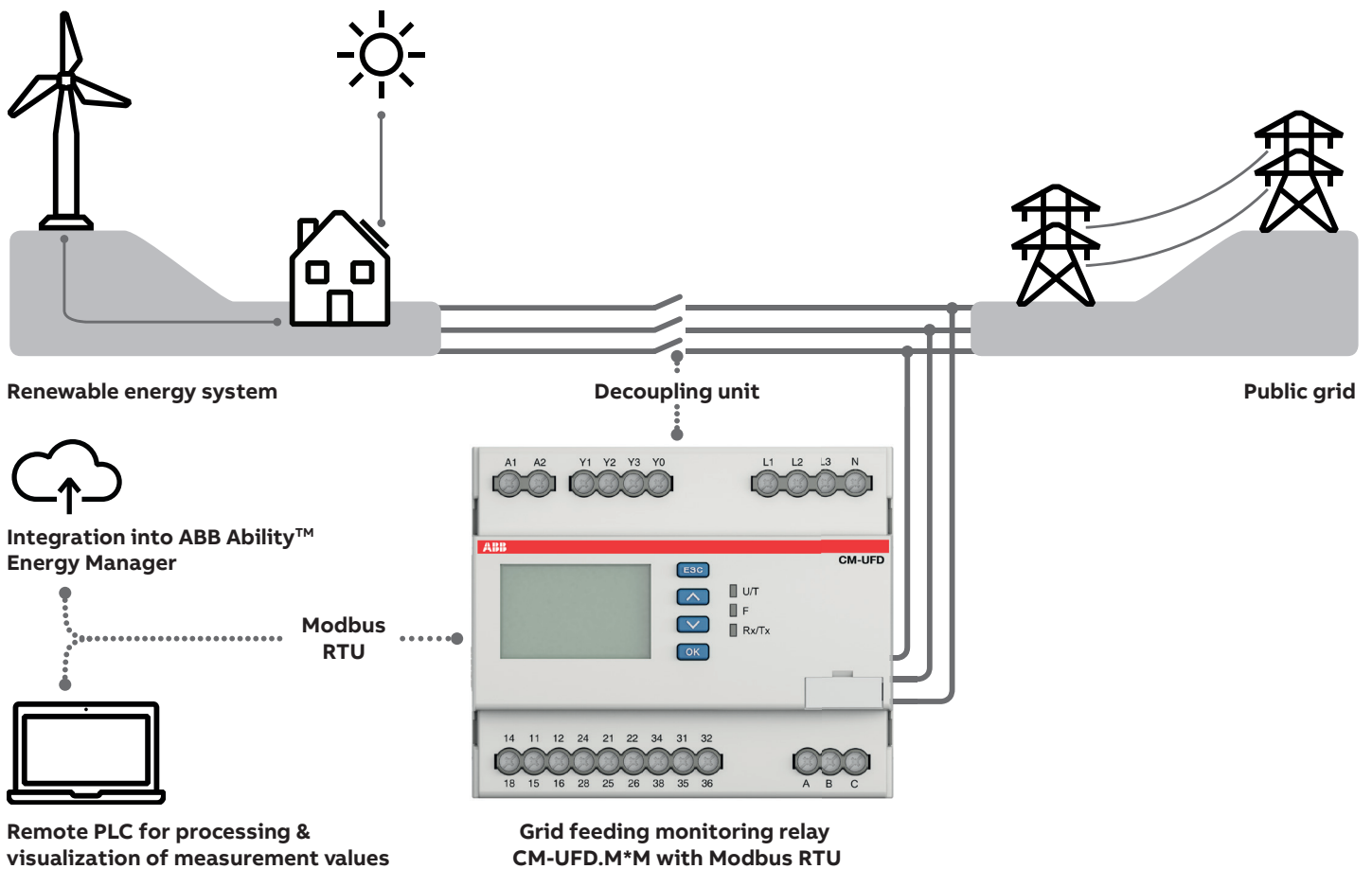


GRID FEEDING MONITORING RELAY

Grid feeding monitoring relay CM-UFD.M34M with Modbus RTU and ABB Ability™ Energy Manager connectivity

Increase network stability with high-performance grid and system protection, tested for DEWA DRRG standard



Application

ABB's CM-UFD.M34M with Modbus RTU and CM-UFD.M34 are multi-functional grid feeding monitoring relays, which provide interface protection and are to be installed between a renewable energy system and the public grid. These innovative relays guarantee grid stability and seek to prevent blackouts. If the voltage or frequency magnitudes of the public grid are outside the permitted range, then the devices change status and act to disconnect the renewable energy system from the public grid by sending a signal to a decoupling unit (e.g. contactor, switch disconnector or circuit breaker). Furthermore, the CM-UFD.M34M is equipped with a Modbus RTU communication interface, enabling the possibility for remote monitoring and the a connection to the state-of-the-art cloud solution, ABB Ability™.

Functionality

ABB's CM-UFD.M34(M) relay provides a range of monitoring functions in accordance with DEWA DRRG standard. The unit detects over- and undervoltage (10-minutes average value, voltage increase and decrease protection) as well as any changes in grid frequency (frequency increase and decrease protection). The rate of change of frequency (ROCOF) as well as vector shift monitoring can be easily configured.

Advantages

- Highly accurate measurement and setting
- Functional safety - single fault tolerance
- Clear multiline, backlit LCD display
- Intuitive and user-friendly menu
- Event storage built in
- Pre-setting meets DEWA DRRG standard
- Type tested for DEWA DRRG standard
- Modbus RTU communication interface on the CM-UFD.M34M
- Integrate the CM.UFD.M34M range into ABB Ability™ Energy Manager



Easy-to-install

Commission & configure up to 60% faster

Simple instructions and ABB's intuitive menu structure make installation quick and seamless.



Optimum interface

Reduce downtime by up to 70%

Operate the device via LCD display or remotely with the Modbus RTU. Users are informed immediately in case of an event in the public grid. Redundant microcontrollers ensure reliable measuring values and tripping.



Connected to ABB Ability™



01 CM-UFD.M34M with Modbus RTU

The CM-UFD.M34M's LCD display facilitates and eases configuration, whereas the Modbus RTU enables remote communication and monitoring.



Communication interface

Modbus RTU, integrated in the CM-UFD.M34M, enables control commands like remote tripping and convenient remote data processing. It also provides status information and actual process values.



Pre-set acc. to DEWA DRRG standard

In conformity with DEWA DRRG, the CM-UFD.M34(M) relay can be used in all low voltage plants and in medium voltage plants in Dubai, the United Arab Emirates.



Type-tested

To ensure reliability and compliance to the local standard the CM-UFD.M34(M) is type tested by a third party authority.

Ordering details

Type	Rated control supply voltage	Measuring range	Order code
CM-UFD.M34	24-240 V AC/DC	L-L: 0-540 V AC / L-N: 0-312 V AC	1SVR560730R3403
CM-UFD.M34M	24-240 V AC/DC	L-L: 0-540 V AC / L-N: 0-312 V AC	1SVR560731R3703

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