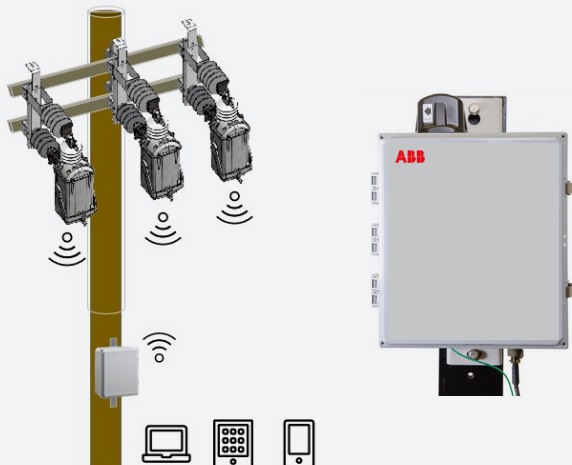
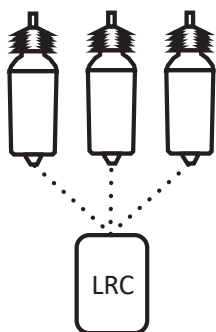


Eagle self-powered single-phase recloser

With long range communication cabinet



Increase visibility and control at the edge of the grid using simple yet flexible connectivity options.



Reliable and synchronous three-phase operation

The Eagle recloser can be used to protect single-phase lateral or three-phase feeders. The separately powered LRC cabinet maintains a constant communication link to the Eagle reclosers paired with it. This allows users to operate the Eagle reclosers locally or remotely.

Users can leverage the robust ratings of the Eagle recloser for three-phase feeder applications. If the operating philosophy is single-phase reclose/three-phase lockout, the LRC cabinet can be programmed to send trip commands to the reclosers in non-faulted phases, resulting in synchronous opening of all three phases.

Eagle ratings:

- Rated up to 27 kV
- 125 kV BIL
- 200 A continuous current
- 8 kA interrupting current
- Three reclosing shots
- IEEE C37.60/IEC 62271 recloser standard classification
- 10,000 operations

Long range communication (LRC) cabinet features:

- Facilitates three-phase recloser control schemes
- DNP 3.0 SCADA communication
- 900 MHz radio and LTE cellular connectivity
- Remote recloser configuration, monitoring and operation for up to three Eagle single-phase reclosers
- IP65 rated enclosure
- Encrypted local and remote wireless communication
- GPS for location and timestamps
- Platform-independent, web browser-based user interface



Increased visibility and control

Eagle supports DNP 3.0 protocol for monitoring, probing, configuring and operating the Eagle recloser remotely. A comprehensive list of DNP data points provides the necessary visibility into the recloser fleet and allows easy integration to the distribution management system schemes.



Simple yet secure connectivity

The LRC cabinet communicates with the Eagle reclosers and local devices over Wi-Fi using secure WPA2 128-bit encryption. Local communication to the LRC cabinet can be made by simply choosing the right network from the list of available Wi-Fi networks on a computer or handheld device.

Remote and SCADA communications can be established from the gateway through industry popular Ethernet, radio or LTE cellular connectivity.

The Eagle recloser electronics and the LRC communications gateway are designed using cybersecurity principles at the core of the system. These devices then undergo regression testing in ABB's cyber-defense evaluation center (CDEC) and device security assurance center (DSAC), where the systems are tested against a comprehensive list of vulnerability checks.



Easy installation

The Eagle LRC cabinet can be added to any existing Eagle recloser installation with a simple firmware upgrade and no hardware change. For new installations, users can request a preconfigured LRC cabinet with the Eagle reclosers.

LRC cabinet technical specifications

Power supply	110–240 V AC / 110–345 V DC
Input power frequency	47–63 Hz
Radio/router power provision	24 V DC
Max. radio/router power consumption	< 10 W
Max. cabinet power consumption	80 W excluding AC receptacle power
Battery backup	12 V 12 Ah
Ingress protection	IP68
Communication cabinet weight	< 15 kg (33 lbs)
Enclosure size	15.8" x 17.8" x 7.9" (401 x 452 x 201 mm)
Enclosure material	UV-stabilized polycarbonate
Operating temperature	-40 °C to +50 °C

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