

EC/LO Pro™

Machine Control Unit



HIGHLIGHTS

EC/LO Pro™ is a proven locomotive remote control solution for rail operators who rely on the power of proven technology and connectivity to safeguard operators and maximize productivity. The device is a highly reliable, flexible solution that is based on more than 70 years of experience in design and manufacturing.

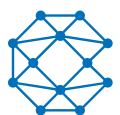
Cattron's EC/LO Pro is the most modern RCL system for shunting locomotives and the first in the industry to achieve independent certification by TÜV Nord to support SIL 3 operation to the latest CENELEC standards. Certification ensures that you are investing in a modern design with capabilities for exciting new features and reduced risk of future obsolescence challenges.

FEATURES

- Third-party assessment by accredited third party; compliant to EN 50126, EN 50128 SIL3, EN 50129 SIL3, EN 50239, EN 50155.
- Fire protection according to EN 45545.
- SIL 3 capable (Safety Integrity Level)
- Locomotive control - throttle, reverser, independent brake control and emergency stop from the OCU.
- Man Down Alert - built in stop if OCU detects a tilt or man down event.
- Robust RF Communication - high availability due to robust RF link.
- TDMA Communication (Time Division Multiple Access) allows multiple systems to utilize the same frequency.
- Same in form, fit and function ensures backwards compatibility with TH-EC/LO.

OPTIONS

- Talkback: transmission of information from the locomotive to the operator control unit.
- Pitch and Catch: allows a two-person team to direct movement of the locomotive including braking, horn and tilt protection.
- Antenna Diversity: integrated RF unit utilizes multiple antennas and intelligently utilizes the strongest signal.
- Reception Diversity: utilizes multiple RF units in parallel to ensure a stable connection.
- Emergency Stop Diagnosis: emergency brake events trigger data output to compatible locomotive event logger.
- Multiple Digital Inputs: allows functions in the MCU like standstill monitoring, pressure monitoring or rollback protection (Anything that can provide a signal)
- Vigilance Functionality: built-in intelligence to automatically stop system if users do not give a command for a set amount of time.





TECHNICAL DATA AND SPECIFICATIONS

Dimensions	484 mm x 132 mm x 239 mm (W x H x D)
Ingress Protection Class	IP20
Operating Voltage	24 VDC (16.6 to 32 VDC)
Power Consumption	< 50 VA
Fuse Protection (internal)	6,3 A/FF
Operating Temperature	-30°C ... +60°C, short time maximum + 70°C
Operating Frequency	400 to 480 MHz (70 cm band) in accordance with EN300220 or EN300113
Weight	< 10 kg
Compatible OCUs	EC/LO Pro™ OCU EC/LO2 OCU EC/ LO OCU

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