

# EC/LO2 OCU

## POWERFUL, ERGONOMIC AND LIGHTWEIGHT CONTROLLER

### HIGHLIGHTS

- Five basic designs available, varying in the type of controls and handling
- All designs are made for single hand use, allowing the operator to maintain a safe position on the locomotive with the other hand
- Service-friendly electronics using plug in components

### FEATURES

- Integrated internal antenna, external antenna as option
- Audible and visual indication of low battery and/or other warnings
- Front plate made with a scratch resistant aluminum finish
- Software-defined, digital parameters, e.g. tilt alert, vigilance
- Configurable feedback
- IP65 housing made of impact-resistant polycarbonate resin for tough environments

### OPTIONS

- Feedback
- LED Flashlights
- TransLoop
- Pitch and Catch
- Cross-Border Feature

### COMPATIBLE MCUS

- TH-EC/LO

### COMPLIANCE

#### SAFETY

- EN 50126,
- EN 50128 SIL3
- EN 50129 SIL3
- EN 50239
- EN 50155,  
EN / IEC 61508 SIL3

#### DATA TRANSMISSION

As per EN 50159-2 and  
EN 60870-5-1  
Integrity class I3

#### OTHER

Fire safety EN 45545  
TÜV Nord certified\*  
Radio standards  
EN 300 113  
EN 300 220  
R&TTE (Europe)

\*CERTIFICATION IN PROCESS





## TECHNICAL DATA AND SPECIFICATIONS

### ELECTRONIC DATA

Address decode logic	16 bit
Digital Circuitry	Dual-processor technology
Rechanneling technology	System Mod Misch (Standard) System MX (Option) System Vario (Option)

### OPERATION AND INDICATION

Layout	Customer-specific
Display	Graphic LCD to display feedback data (optionally)
LED Display	4 multi-color status LED 12 feedback LEDs (8 monochrome, red)

### MECHANICAL DATA

Weight	Approx. 1.7 kg (3.7 lbs) dependant on transmitter design
Dimensions L x W x H	184 x 257 x 85 mm (7.2" x 10.1" x 3.3") models TFS, SFS, VFS
Housing	IP65

### ?????

Frequency Range	400-500 MHz (70 cm band)
Transmission Rate	3,100 bit/sec on transmission path 12.5 KHz  4,800 bit/sec on transmission path 20/25 KHz
RF Channel	12.5 / 20 / 25 KHz
Spacing	
Telegram Security	CRC (Cyclic Redundant Check) d ≥ 6
Telegram structure	PPM, HDB3, VWC

### ACCESSORIES

Batteries	2 quick-charge batteries, NiMH, 10.8 V /2,000 mAH
Battery Charger	Processor-controlled charger, single-charger (standard 24 V DC), double-charger (standard 24 V DC), further variants on request
Harness	Ergonomic & comfortable harness, with reflecting stripes

North America: +1.234.806.0018 | Sales.US@Cattron.com  
 Europe: +49.2151.4795.0 | Sales.EU@Cattron.com  
 UK: +44.1932.238121 | Sales.UK@Cattron.com  
 South America: +55.19.3518.7030 | Sales.BR@Cattron.com  
 Asia: Sales.CN@Cattron.com

[cattron.com](http://cattron.com)

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