



Loc-Ex® 01 - BLE Beacon

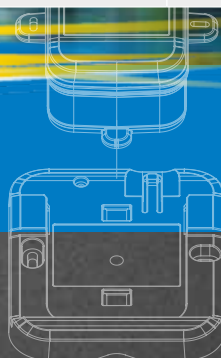
**LOCALIZATION IN
HAZARDOUS AREAS**

Loc-Ex[®] 01



CERTIFICATION

ATEX 	Ⓢ II 2G Ex ia IIC T4 Gb IP64 Ⓢ II 2D Ex ia IIIC T125°C Db IP64
IECEX 	Ex ia IIC T4 Gb IP64 Ex ia IIIC T125°C Db IP64
NEC & CEC 	Class I, II, III, Division 1 Groups A-G, T4 Class 1, Zone 1, AEx ia IIC T4 Gb Ex ia IIC T4 Gb Class II, Zone 21, AEx ia IIIC T125°C Db IP64 Ex ia IIIC T125°C Db IP64



DESCRIPTION

BLE BEACONS are small radio beacons that emit a signal at periodic intervals.

The Bluetooth 4.0 standard makes the beacons compatible with currently popular smartphones & tablets and they can be recognized by such devices over a distance of up to 200 m. The beacon signals can be evaluated by the mobile device via individual applications and, in this way, interact with the user or other programs.

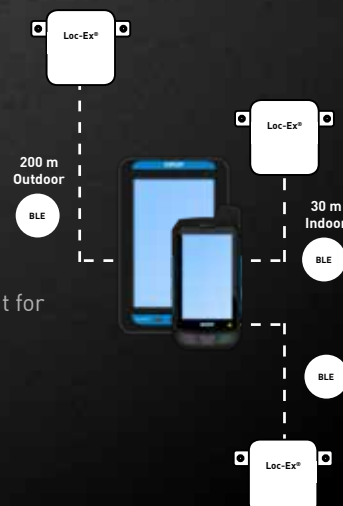
FOR INSIDE AND OUTSIDE THE EX-HAZARDOUS AREA

The beacons are available for ATEX / IECEx Zone 1/21 (Loc-Ex[®] 01), with NEC / CEC approval (Loc-Ex[®] 01) and for non-ex areas (Loc 01 HC & Loc 01 SC). Due to their UV-resistant housing material they can be used both, indoors and outdoors.

The beacons can be mounted directly on a suitable surface or easily adapted on the optional available mounting plate (which facilitates the battery exchange of the beacons).

BENEFITS OF APPLICATION

- Indoor localization
- Lone worker protection
- Physical access control
- Guard control system
- Guiding visitors
- BLE Beacon as replacement for NFC beacon



BLUETOOTH LOW ENERGY LOCALIZATION BEACONS



SCOPE OF DELIVERY

- Loc-Ex® 01 / Loc 01 (HC/SC)
- Batteries
- Documentation

COMPATIBLE WITH

- Smart-Ex® Series
- Ex-Handy 09
- Tab-Ex® Series
- Pad-Ex® 01

ACCESSORIES

- Development Kit
- Batteries
- Mounting Plate
- Screwdriver
- BT Dongle

Loc-Ex® 01

for use in Ex-hazardous areas

FEATURES

- ATEX / IECEx Zone 1/21
- NEC & CEC approval
- Also available as Non-Ex Versions
- Compatible with Bluetooth Low Energy from version 4.0
- Range inside buildings up to 30 m, outdoors up to 200m
- Possibility to change important operating parameters „over the air“
- Open firmware for individual BLE profile development (TI CC2541)
- IP64 Stable UV-resistant enclosure (can also be used outdoors)

TECHNICAL DATA

Ambient temperature Ta	-20°C ... +55°C
Storage temperature	-30°C ... +30°C
Power supply	2 x LS14500 (Loc-Ex® 01 / Loc 01 HC) 2 x AA / LR6 (Loc 01 SC)
Operating time	approx. 4 years (factory settings) (Loc-Ex® 01 / Loc 01 HC-continuous operation) approx. 2 years (factory settings) (Loc 01 SC-continuous operation)
Transmission power	max. 8 dBm
Dimensions	48 x 111 x 102 mm (H x L x W)
Weight	approx. 180g (with batteries)
CE-designation	CE0102

EMEA

Germany (Headquarters) ¹

ecom instruments GmbH
Industriestraße 2
97959 Assamstadt
Phone +49 62 94 42 24-0
Fax +49 62 94 42 24-100
sales@ecom-ex.com
¹ also covering Austria

ecom Benelux ²

ecom instruments BV
Watertoren 45c
3247 CL Dirksland, Netherlands
Phone +31 1 87 60 59 16
Fax +31 1 87 60 33 47
info.nl@ecom-ex.com
² also covering Belgium and Luxembourg

France ³

ecom Nied sarl
4 Rue Ettore Bugatti
67201 Eckbolsheim
Phone +33 3 88 76 46 84
Fax +33 3 88 76 02 85
info.fr@ecom-ex.com
³ also covering Algeria, Egypt, Morocco

Italy

ecom instruments srl
Via Gandhi, 15 Galleria
20017 Rho (MI)
Phone +39 02 93 90 92 16
Fax +39 02 93 90 62 97
info.it@ecom-ex.com

Switzerland

ecom instruments GmbH
Merkurstraße 2
6210 Sursee
Phone +41 4 19 21 60 00
Fax +41 4 19 22 00 08
info.ch@ecom-ex.com

Nordics

ecom instruments GmbH
Postbox 304
2970 Hørsholm
Denmark
Phone +45 28 252 575
info.nordics@ecom-ex.com

United Kingdom

ecom instruments ltd
A310, The Wilton Centre,
Redcar, TS10 4RF,
United Kingdom
Phone +44 1642 46 54 00
Fax +44 1642 46 54 02
info.uk@ecom-ex.com

Middle East

ecom instruments fze
P.O. Box 8918
Saif-Zone, Sharjah, UAE
Phone +971 6 5 57 34 30
Fax +971 6 5 57 34 31
info.uae@ecom-ex.com
⁴ also covering Tunisia and Libya

Americas

USA

ecom instruments Inc.
1779 Westborough Drive, Suite 102
Katy, Texas 77449
Phone +1 281 496 59 30
Fax +1 281 496 23 21
sales.us@ecom-ex.com

Asia

South East Asia

ecom Instruments (SEA) Pte Ltd
15 Pioneer Turn
P+F GDC Building
Singapore 627577
Tel: +65 6779 9078

