

## Planar-B1/-B2 Ex



The Planar-B1/-B2 Ex offers all the advantages of the Planar-B and can be used without any problems in the offshore area in zones 1 and 2 where there is a risk of gas explosion. Extremely flat and light.

### > Operating elements

Planar-B1 Ex	1 x On/horn 1 x Stop 16 x Single detent function
Planar-B2 Ex	1 x On/horn 1 x Stop 4 x Single detent function 6 x Two detent functions



Illustration contains optional equipment.

### > Technology



Multi-user system



NBB battery system



LBT frequency search



Data feedback



IECEX/ATEX

## Technical data



### Technical information

Frequency range	434 MHz
RF power	≤ 10 mW
Typical working range	≤ 100 m (depending on environmental conditions)
Frequency channel search, automatic	LBT-Modus (Listen Before Talk) (depending on country and function configuration)
Antenna	Integrated
Typical response time of the control commands	Approx. 50 ms
LF modulation method	FSK/GFSK
Datarate	9,600 Baud (Bit/sec.)
Ø Current consumption (depending on the expansion level)	Approx. 60 mA
Prewarning time „Battery empty“	Approx. 15 minutes
Data response (optional)	Customer specified information/feedback engines
Serial number mode (service case, device replacement)	Entry via buttons combination on the device (optional)
LCD/TFT display	1.2 inch monochrome display (128x64 px), customized illustration possible
Energy saving function (Standby)	Standard: after 60 min. Optional: Setting according to customer requirements (continuous operation possible)

### Machine data

Ambient operating temperature	-20 °C up to +40 °C
Weight	– Planar-B1 Ex: 220 g – Planar-B2 Ex: 220 g
Dimensions (L x W x H)	– Planar-B1 Ex: 216 mm x 57 mm x 37 mm – Planar-B2 Ex: 216 mm x 57 mm x 37 mm
Case material	Impact resistant, glass fiber reinforced polyamide

### Equipment safety

CE certification	Yes
Protection class	IP65
Data security	Addressing of each transmitter by unique bit combination
EMERGENCY STOP or STOP function	Yes (sending stop telegrams for 2 sec.)

### Power supply

Power supply	NiMH Ex-battery (3.6VDC/700mAh)
Operating time	Up to 10 hours
Loading form	Externally, via a separate charger
Charger available for (UE)	110VAC – 230VAC, 12/24VDC
Plug form AC (adapter set)	EU, USA, JP, GB, AU
Plug form DC	Car charger plug