

## PROUHF400B

Enclosure radiomodem series  
with embedded power source



\* Radiomodem PROUHF400B is still under design. All the technical data can be updated during the design process.

### Description

PROUHF400B is series of enclosure UHF radiomodems in range of 410-470 MHz with embedded battery.

PROUHF400B with embedded battery provides up 9 hours of operating at 2W output power and maximum data speed over the air is up to 19200 bps.

PROUHF400B is compatible with transmitting protocols TRIMTALK, TRIMMARK and Transparent-EOT.

PROUHF400B supports interfaces: RS232, RS485, USB, CAN, Bluetooth, WiFi.

PROUHF400B supports control through command and WEB-interfaces.

PROUHF400B has embedded light signal indication of the device and interfaces.

### Common fields of use

One can be used for the applications that require wireless transfer of the correction data, such as RTK measurements, as well as wide functional monitoring of the oil and gas mines and hydro-graphic researches.

### Common technical properties :

#### Radio

Frequency range	410-470 MHz
Operation mode	halfplex
Channel spacing	25 kHz, 12.5 kHz
Modulation type	GMSK, 4FSK
Frequency stability	$\leq \pm 1.0$ ppm

#### Electrical (battery no charge)

Operational voltage	9-36 V
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#### Electrical (battery charge)

Operational voltage	12-36 V
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#### Autonomous operation time (typical)

2W transmitting	9 hours
0.5W transmitting	12 hours
Receiving	16 hours

#### UHF antenna

Antenna connector	TNC (female)
Impedance	50 Ohm

#### Transmitter

High output power (2 W)	$33 \pm 1$ dBm
Low output power (0.5 W)	$27 \pm 1$ dBm
Power stability	$\pm 1$ dB
Harmonics	$> 52$ dB

#### Receiver

Sensitivity	-115 dBm, BER 10-3, 9600 bps
Co-channel rejection	$> -12$ dB
Adjacent Channel Selectivity	$> 50$ dB at 25 kHz
WiFi	802.11 b/g/n

#### Physical properties

Dimensions	155 x 83 x 64 mm
Weight	600 g (without embedded battery)

#### External connectors

Data	30 pin connector provides wired connection of power and interfaces
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